

1990

CENSUS OF
POPULATION
AND HOUSING

SERIES CPH (4)

CONGRESSIONAL
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103RD CONGRESS

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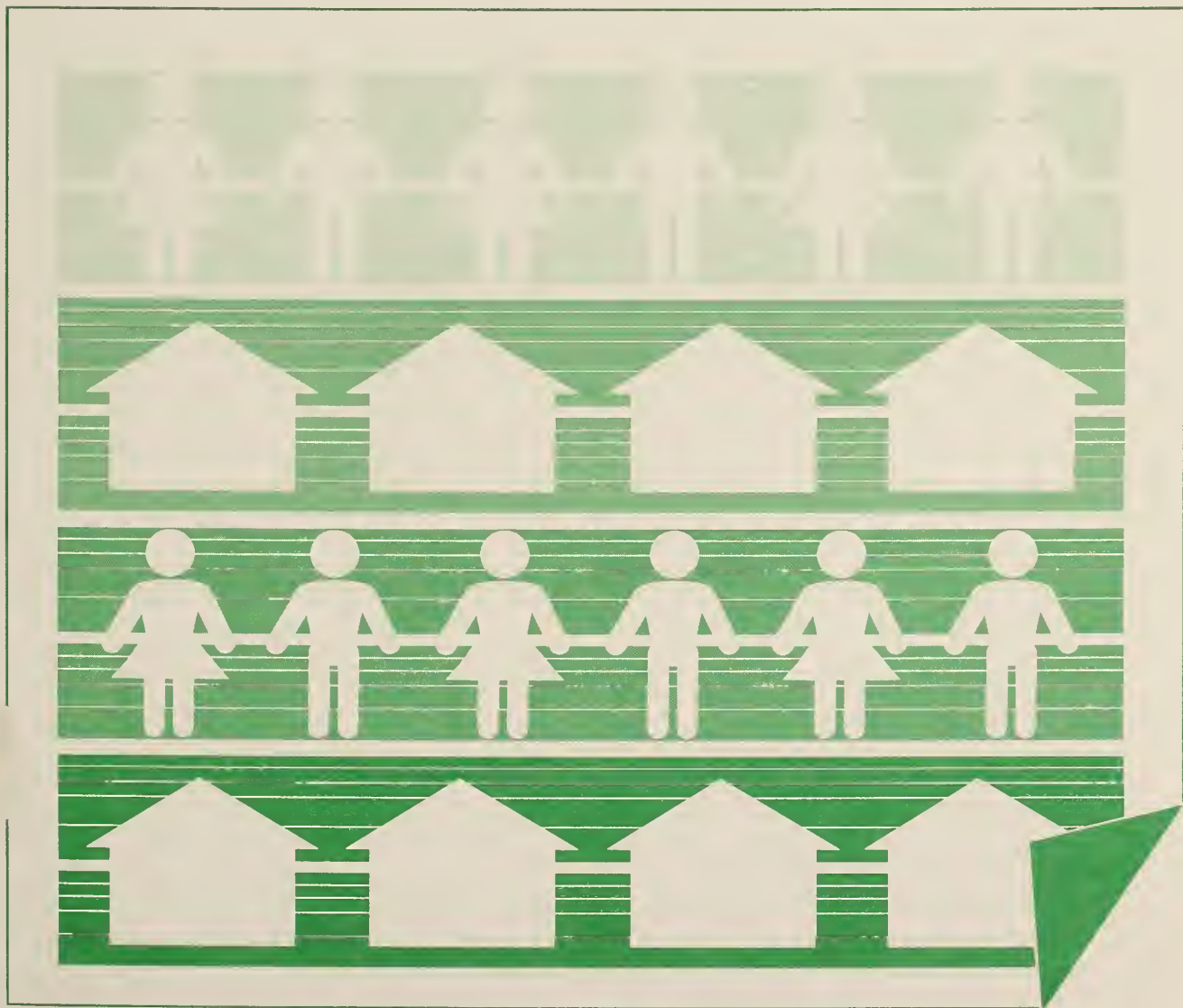
U.S. Department of Commerce
Economics and Statistics Administration
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1990 CPH-4-13

CENSUS '90



1990 Census of
Population and Housing
Population and Housing
Characteristics for
Congressional Districts
of the 103rd Congress
Hawaii



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ACKNOWLEDGMENTS

The Decennial Planning Division, **Susan M. Miskura**, Chief, coordinated and directed all census operations. **Patricia A. Berman**, Assistant Division Chief for Content and Data Products, directed the development and implementation of the 1990 Census Tabulation and Publication Program. Other assistant division chiefs were **Robert R. Bair**, **Rachel F. Brown**, **James L. Dinwiddie**, **Allan A. Stephenson**, and **Edwin B. Wagner, Jr.** The following branch chiefs made significant contributions: **Cheryl R. Landman**, **Adolfo L. Paez**, **A. Edward Pike**, and **William A. Starr**. Other important contributors were **Linda S. Brudvig**, **Cindy S. Easton**, **Avis L. Foote**, **Carolyn R. Hay**, **Douglas M. Lee**, **Gloria J. Porter**, and **A. Nishea Quash**.

The Decennial Operations Division, **Arnold A. Jackson**, Chief, was responsible for processing and tabulating census data. Assistant division chiefs were: **Donald R. Dalzell**, **Kenneth A. Riccini**, **Billy E. Stark**, and **James E. Steed**. Processing offices were managed by **Alfred Cruz, Jr.**, **Earle B. Knapp, Jr.**, **Judith N. Petty**, **Mark M. Taylor**, **Russell L. Valentine, Jr.**, **Carol A. Van Horn**, and **C. Kemble Worley**. The following branch chiefs made significant contributions: **Jonathan G. Ankers**, **Sharron S. Baucom**, **Catharine W. Burt**, **Vickie L. Cotton**, **Robert J. Hemmig**, **George H. McLaughlin**, **Carol M. Miller**, **Lorraine D. Neece**, **Peggy S. Payne**, **William L. Peil**, **Cotty A. Smith**, **Dennis W. Stoudt**, and **Richard R. Warren**. Other important contributors were **Eleanor I. Banks**, **Miriam R. Barton**, **Danny L. Burkhead**, **J. Kenneth Butler, Jr.**, **Albert A. Csellar**, **Donald H. Danbury**, **Judith A. Dawson**, **Donald R. Dwyer**, **Beverly B. Fransen**, **Katherine H. Gilbert**, **Lynn A. Hollabaugh**, **Ellen B. Katzoff**, **Randy M. Klear**, **Norman W. Larsen**, **Peter J. Long**, **Sue Love**, **Patricia O. Madson**, **Mark J. Matsko**, **John R. Murphy**, **Dan E. Philipp**, **Eugene M. Rashlich**, **Willie T. Robertson**, **Barbara A. Rosen**, **Sharon A. Schoch**, **Imelda B. Severdia**, **Diane J. Simmons**, **Emmett F. Splers**, **Johanne M. Stovall**, **M. Lisa Sylla**, and **Jess D. Thompson**.

The Housing and Household Economic Statistics Division, **Daniel H. Welnberg**, Chief, developed the questionnaire content, designed the data tabulations, and reviewed the data for the economic and housing characteristics. **Gordon W. Green, Jr.**, Assistant Division Chief for Economic Characteristics, and **Leonard J. Norry**, Assistant Division Chief for Housing Characteristics, directed the development of this work. The following branch chiefs made significant contributions: **William A. Downs**, **Peter J. Fronczek**, **Patricia A. Johnson**, **Enrique J. Lamas**, **Charles T. Nelson**, and **Thomas S. Scopp**. Other important contributors were **Eleanor F. Baugher**, **Jeanne C. Benettl**, **Robert L. Bennefield**, **Robert W. Bonnette**, **William S. Chapin**, **Higinio Feliciano**, **Timothy S. Grall**, **Cynthia J. Harpine**, **Selwyn Jones**, **Mary C. Kirk**, **Richard G. Kreinsen**, **Gordon H. Lester**, **Mark S. Littman**, **Wilfred T. Masumura**, **John M. McNeil**, **Diane C. Murphy**, **George F. Patterson**, **Thomas J. Palumbo**, **Kirby G. Posey**, **John Priebe**, **Anne D. Smoler**, and **Carmina F. Young**.

The Population Division, **Paula J. Schneider**, Chief, developed the questionnaire content, designed the data tabulations, and reviewed the data for the demographic and social characteristics of the population. **Philip N. Fulton**, Assistant Division Chief for Census Programs, directed the development of this work. Other assistant division chiefs were **Nampee R. McKenney** and **Arthur J. Norton**. The following branch and staff chiefs made significant contributions: **Jorge H. del Pinal**, **Campbell J. Gibson**, **Roderick J. Harrison**, **Donald J. Hernandez**, **Jane H. Ingold**, **Martin T. O'Connell**, **Marie Pees**, **J. Gregory Robinson**, **Phillip A. Salopek**, **Paul M. Siegel**, **Robert C. Speaker**, **Gregory K. Spencer**, and **Cynthia M. Taeuber**. Other important contributors were **Celia G. Boertlein**, **Rosalind R. Bruno**, **Janice A. Costanzo**, **Rosemarie C. Cowan**, **Arthur R. Cresce**, **Larry G. Curran**, **Carmen DeNavas**, **Robert O. Grymes**, **Kristin A. Hansen**, **Mary C. Hawkins**, **Rodger V. Johnson**, **Michael J. Levin**, **Edna L. Paisano**, **Sherry B. Pollock**, **Stanley J. Rolark**, **A. Dianne Schmidley**, **Denise I. Smith**, and **Nancy L. Sweet**.

The Data User Services Division, **Gerard C. Iannelli**, then Chief, directed the development of data product dissemination and information to increase awareness, understanding, and use of census data. **Marie G. Argana**, Assistant Chief for Data User Services, directed preparation of electronic data products and their dissemination. **Alfonso E. Mirabal**, Assistant Chief for Group Information and Advisory Services, directed activities related to the National Services Program, State Data Centers, and preparation of training materials. The following branch chiefs made significant contributions: **Deborah D. Barrett**, **Frederick G. Bohme**, **Larry W.**

Carbaugh, **James P. Curry**, **Samuel H. Johnson**, **John C. Kavalinas**, and **Forrest B. Williams**. Other important contributors were **Molly Abramowitz**, **Celestin J. Aguigui**, **Barbara J. Aldrich**, **Delores A. Baldwin**, **Albert R. Barros**, **Geneva A. Burns**, **Carmen D. Campbell**, **James R. Clark**, **Virginia L. Collins**, **George H. Dailey, Jr.**, **Barbara L. Hatchl**, **Theresa C. Johnson**, **Paul T. Manka**, **John D. McCall**, **Jo Ann Norris**, **David M. Pemberton**, **Sarabeth Rodriguez**, **Charles J. Wade**, **Joyce J. Ware**, and **Gary M. Young**.

The Geography Division, **Robert W. Marx**, Chief, directed and coordinated the census mapping and geographic activities. **Jack R. George**, Assistant Division Chief for Geoprocessing, directed the planning and development of the TIGER System and related software. **Robert A. LaMacchia**, Assistant Division Chief for Planning, directed the planning and implementation of processes for defining 1990 census geographic areas. **Silla G. Tomasi**, Assistant Division Chief for Operations, managed the planning and implementation of 1990 census mapping applications using the TIGER System. The following branch chiefs made significant contributions: **Frederick R. Broome**, **Charles E. Dingman**, **Linda M. Franz**, **David E. Galdi**, **Dan N. Harding**, **Donald I. Hirschfeld**, **David B. Meixler**, **Peter Rosenson**, **Joel Sobel**, **Brian Swanhart**, and **Richard Trois**. Other important contributors were **Gerard Boudriault**, **Desmond J. Carron**, **Anthony W. Costanzo**, **Paul W. Daisey**, **Beverly A. Davis**, **Carl S. Hantman**, **Christine J. Kinnear**, **Terence D. McDowell**, **Linda M. Pike**, **Rose J. A. Quarato**, **Lourdes Ramirez**, **Gavin H. Shaw**, **Daniel L. Sweeney**, **Timothy F. Trainor**, **Phyllis S. Willette**, and **Walter E. Yergen**.

The Statistical Support Division, **John H. Thompson**, Chief, directed the application of mathematical statistical techniques in the design and conduct of the census. **John S. Linebarger**, Assistant Division Chief for Quality Assurance, directed the development and implementation of operational and software quality assurance. **Henry F. Woltman**, Assistant Division Chief for Census Design, directed the development and implementation of sample design, disclosure avoidance, weighting, and variance estimation. **Howard Hogan** and **David V. Bateman** were contributing assistant division chiefs. The following branch chiefs made significant contributions: **Florence H. Abramson**, **Deborah H. Griffin**, **Richard A. Griffin**, **Lawrence I. Iskow**, and **Michael L. Mersch**. Other important contributors were **Linda A. Flores-Baez**, **Larry M. Bates**, **Somonica L. Green**, **James E. Hartman**, **Steven D. Jarvis**, **Alfredo Navarro**, **Eric L. Schindler**, **Carolyn T. Swan**, and **Glenn D. White**.

The 1990 Census Redistricting Data Office, **Marshall L. Turner, Jr.**, Chief, assisted by **Cathy L. Talbert**, directed the development and implementation of the 1990 Census Redistricting Data Program.

The Administrative and Publications Services Division, **Walter C. Odom**, Chief, provided direction for the census administrative services, publications, printing, and graphics functions. **Michael G. Garland** was a contributing assistant division chief. The following branch and staff chiefs made significant contributions: **Bernard E. Baymler**, **Albert W. Cosner**, **Gary J. Lauffer**, **Gerald A. Mann**, **Clement B. Nettles**, **Russell Price**, and **Barbara J. Stanard**. Other important contributors were **Barbara M. Abbott**, **Robert J. Brown**, **David M. Coontz**, and **John T. Overby**.

The Data Preparation Division, **Joseph S. Harris**, Chief, provided management of a multi-operational facility including kit preparation, procurement, warehousing and supply, and census processing activities. **Plummer Alston, Jr.**, and **Patricia M. Clark** were assistant division chiefs.

The Field Division, **Stanley D. Matchett**, Chief, directed the census data collection and associated field operations. **Richard L. Bitzer**, **Richard F. Blass**, **Karl K. Kindel**, and **John W. Marshall** were assistant division chiefs. Regional office directors were **William F. Adams**, **John E. Bell**, **LaVerne Collins**, **Dwight P. Dean**, **Arthur G. Dukakis**, **Sheila H. Grimm**, **William F. Hill**, **James F. Holmes**, **Stanley D. Moore**, **Marvin L. Postma**, **John E. Reeder**, and **Leo C. Schilling**.

The Personnel Division, **David P. Warner**, Chief, provided management direction and guidance to the staffing, planning pay systems, and employee relations programs for the census. **Colleen A. Woodard** was the assistant chief.

The Technical Services Division, **C. Thomas DiNenna**, Chief, designed, developed, deployed, and produced automated technology for census data processing.

Census
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1990
. A574
CPH-4-13

1990 CPH-4-13

**1990 Census of
Population and Housing
Population and Housing
Characteristics for
Congressional Districts
of the 103rd Congress
Hawaii**

Issued December 1992



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**Economics and Statistics Administration
J. Antonio Villamil, Under Secretary
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CONTENTS

	Page
List of Statistical Tables	iv
How to Use This Census Report.....	I-1
Table Finding Guide.....	II-1
User Notes	III-1

Statistical Tables (For detailed list of statistical tables, see page iv.)	1
--	---

APPENDIXES

A. Area Classifications	A-1
B. Definitions of Subject Characteristics	B-1
C. Accuracy of the Data.....	C-1
D. Collection and Processing Procedures.....	D-1
E. Facsimiles of Respondent Instructions and Questionnaire Pages	E-1
F. Data Products and User Assistance	F-1
G. Maps	G-1

LIST OF STATISTICAL TABLES

[An asterisk (*) indicates that the table was omitted because there were no qualifying geographic area(s) or population group(s)]

Table	Page	Table	Page
1. General Characteristics of Persons: 1990 State Congressional District	1	9. Occupancy and Financial Characteristics for Owner-Occupied Housing Units: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	9
2. Age: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	2	10. Occupancy and Financial Characteristics for Renter-Occupied Housing Units: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	10
3. Sex, Race, and Hispanic Origin: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	3	11. Occupied Housing Units by Race and Hispanic Origin of Householder: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	11
4. Household, Family, and Group Quarters Characteristics: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	4	12. Selected Housing and Household Characteristics and Land Area for American Indian and Alaska Native Areas: 1990 Congressional District American Indian Area	*
5. Land Area and Population Density: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	5	13. General, Family, and Fertility Characteristics: 1990 State Congressional District	13
6. Selected Population Characteristics for American Indian and Alaska Native Areas: 1990 Congressional District American Indian Area	*	14. Social Characteristics: 1990 State Congressional District	14
7. General Characteristics of Housing Units: 1990 State Congressional District	7	15. Labor Force Characteristics: 1990 State Congressional District	15
8. Structural and Vacancy Characteristics: 1990 State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	8	16. Income and Poverty Status in 1989: 1990 State Congressional District	16

Table	Page	Table	Page
17. Selected Characteristics of Persons by Race and Hispanic Origin: 1990	17	26. Occupancy, Utilization, and Financial Characteristics of Housing Units: 1990	29
State		State	
Congressional District		Congressional District	
18. Selected Social Characteristics: 1990	21	27. Homeowner and Rental Financial Characteristics: 1990	30
State		State	
Congressional District		Congressional District	
County			
Place and [In Selected States]			
County Subdivision [10,000 or More Persons]		28. Selected Housing Characteristics by Race and Hispanic Origin of Householder: 1990	31
19. Education and Veteran Status: 1990	22	State	
State		Congressional District	
Congressional District			
County		29. Structural, Plumbing, and Equipment Characteristics: 1990	32
Place and [In Selected States]		State	
County Subdivision [10,000 or More Persons]		Congressional District	
20. Employment Status and Journey to Work Characteristics: 1990	23	County	
State		Place and [In Selected States]	
Congressional District		County Subdivision [10,000 or More Persons]	
County			
Place and [In Selected States]		30. Fuels and Equipment Characteristics: 1990	33
County Subdivision [10,000 or More Persons]		State	
21. Disability Status: 1990	24	Congressional District	
State		County	
Congressional District		Place and [In Selected States]	
County		County Subdivision [10,000 or More Persons]	
Place and [In Selected States]			
County Subdivision [10,000 or More Persons]		31. Homeowner and Renter Characteristics: 1990	34
22. Income and Poverty Status In 1989: 1990	25	State	
State		Congressional District	
Congressional District		County	
County		Place and [In Selected States]	
Place and [In Selected States]		County Subdivision [10,000 or More Persons]	
County Subdivision [10,000 or More Persons]			
23. Selected Social and Economic Characteristics for American Indian and Alaska Native Areas: 1990	*	32. Selected Housing Characteristics for American Indian and Alaska Native Areas: 1990	*
Congressional District		Congressional District	
American Indian Area		American Indian Area	
24. Structural Characteristics of Housing Units: 1990	27		
State		33. Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990	36
Congressional District		State	
		Congressional District	
25. Equipment and Fuels: 1990	28	County	
State		Place and [In Selected States]	
Congressional District		County Subdivision [10,000 or More Persons]	

Table	Page	Table	Page
34. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990	37	35. Percent in Sample, Standard Error, and Confidence Bounds for American Indian and Alaska Native Areas: 1990	*
State			
Congressional District		Congressional District	
County			
Place and [In Selected States]		American Indian Area	
County Subdivision [10,000 or More Persons]			

HOW TO USE THIS CENSUS REPORT

CONTENTS

Contents of the Appendixes	I-3
Graphics	I-3
How to Find Geographic Areas and Subject-Matter Data.....	I-1
How to Use the Statistical Tables	I-2
User Notes.....	I-3

INTRODUCTION

Data from the 1990 census are presented in several different report series. These series are published under the following three subject titles:

1. 1990 Census of Population (1990 CP)
2. 1990 Census of Housing (1990 CH)
3. 1990 Census of Population and Housing (1990 CPH)

The types of data and the geographic areas shown in reports differ from one series to another. In most series, there is one report for each State, the District of Columbia, Puerto Rico, and the Virgin Islands of the United States (Virgin Islands), plus a United States summary report. Some series include reports for American Indian and Alaska Native areas, metropolitan areas, and urbanized areas. See appendix F for detailed information about the various report series; additional 1990 census data products such as computer tapes, microfiche, and laser disks; other related materials; and sources of assistance.

The data from the 1990 census were derived from a limited number of basic questions asked of the entire population and about every housing unit (referred to as the 100-percent questions), and from additional questions asked of a sample of the population and housing units (referred to as the sample questions). Two primary versions of questionnaires were used: a short form containing only the 100-percent questions and a long form containing both the 100-percent questions and the additional sample questions. Appendix E presents facsimiles of the questionnaire pages and the respondent instructions used to collect the data included in this report. Appendix F lists the subjects that are covered by the 100-percent and sample components of the 1990 census.

Legal provision for this census, which was conducted as of April 1, 1990, was made in the Act of Congress of August 31, 1954 (amended August 1957, December 1975, and October 1976), which is codified in Title 13, United States Code.

HOW TO FIND GEOGRAPHIC AREAS AND SUBJECT-MATTER DATA

This report includes a table finding guide to assist the user in locating those statistical tables that contain the data that are needed. The table finding guide lists alphabetically, by geographic area, the subjects shown in this report. To determine which tables in this report show data for a particular topic, find the subject in the left-hand column of the table finding guide and then look across the columns using the headings at the top for the desired type of geographic area. Below is an example of a table finding guide.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B. Table numbers without reference letters in parentheses indicate data for the total population only. Data by race and Hispanic origin are indicated with reference letters in parentheses after the table numbers. Reference letters for population counts and subjects by race and Hispanic origin follow:

- (A) White, Black, American Indian, Eskimo, or Aleut; Asian or Pacific Islander; Hispanic origin; White, not of Hispanic origin.
- (B) American Indian, Eskimo, Aleut, All Asian, Chinese, Filipino, Japanese, Asian Indian, Korean, Vietnamese, Cambodian, Hmong, Laotian, Thai, All Pacific Islander, Hawaiian, Samoan, Guamanian.
- (C) Mexican, Puerto Rican, Cuban, Other Hispanic origin, Dominican, Central American, Guatemalan, Honduran, Nicaraguan, Panamanian, Salvadoran, South American, Colombian, Ecuadorian, Peruvian.
- (D) Race by Hispanic origin.

Subject	The State		County		Place and (in selected States) county subdivision ²		American Indian and Alaska Native area ³
	Total	Urban, rural, size of place, and rural farm ¹	Total	Rural or rural farm	10,000 or more	2,500 to 9,999	
Age	20, 34, 65(B)	20, 56(A)	95, 108(A)	169, 171	135(A)	151	173(A)
Ancestry ...	17, 31	17	92	...	121	150	...
Disability ...	20, 34, 84(D)	20, 57(A)	95, 107(A)	...	136(A)	152	174(A)
Educational attainment .	22, 36	22, 57(A)	97, 107(A)	169, 171	136(A)	160(A)	174(A)
Household type and relationship	21, 35	21, 56(A)	96, 106(A)	169, 171	135(A)	160(A)	173(A)
Industry	26, 40, 67(B)	26, 56(A)	101, 108(A), 116(B)	170, 172	137(A), 148(C)	161(A), 167(C)	175(A)
Poverty status	29, 43, 72(B)	29, 63(A)	104, 113(A), 117(B)	170, 172	142(A), 149(C)	162(A), 168(C)	180(A)
Residence in 1985 ...	23, 37, 67(B)	23, 60(A)	98, 110(A)	...	139(A)	155	177(A)
Veteran status	23, 37, 69(B)	23, 60(A)	98, 110(A)	...	139(A)	155	177(A)
Work status in 1989 ...	27, 41, 69(B)	27, 60(A)	102, 110(A)	...	139(A)	155	177(A)

... Not applicable.

¹Type of residence categories are less detailed in tables 56-64 (which show characteristics by race and Hispanic origin) than in other tables.

²The selected States are Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

³Characteristics are shown only for the American Indian, Eskimo, or Aleut population.

Tables identified in the table finding guide with a reference letter in parentheses after the table number present characteristics for racial groups or persons of Hispanic origin. The tables without reference letters contain data for the total population only. The table finding guide does not include cross-classifications of subject-matter items, nor does it distinguish among tables presenting data for all persons or housing units and tables presenting data for subgroups (for example, persons under 18 years or renter-occupied housing units) unless it is necessary to locate the subject.

Additional information to locate data within specific reports often is provided in the headnote at the top of the table finding guide and in the footnotes at the bottom of the guide.

HOW TO USE THE STATISTICAL TABLES

Parts of a Statistical Table

The census data included in printed reports are arranged in tables. Each table includes four major parts: (1) *heading*, (2) *boxhead*, (3) *stub*, and (4) *data field*.

A typical census report table is illustrated below.

PARTS OF A STATISTICAL TABLE									
Table number and title			Headnote			Column head			
Heading			Table 47. Labor Force Characteristics: 1990			Spanner			
Stubhead			The State of Alaska			Boxhead			
Stub			Total			Data field			
Sidehead			Total			Data field			
Page number and State name			20 ALASKA			Report title			

- The prefix “r” indicates that the count has been revised since publication of 1980 reports or that the area was erroneously omitted or not shown in the correct geographic relationship in the 1980 census reports. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports.
- A dagger “†” next to the name of a geographic area indicates that there has been a geographic change(s) (for example, an annexation or detachment, a new incorporation, or a name change) since the information published for the 1980 census for that area. This symbol appears only in the 1990 CPH-2, *Population and Housing Unit Counts* reports. The geographic change information for the entities in a State is shown in the “User Notes” section of 1990 CPH-2, *Population and Housing Unit Counts* report, for that State. The information for all States appears in the “User Notes” section of the technical documentation for Summary Tape Files 1 and 3.
- A plus sign “+” or a minus sign “-” following a figure denotes that the median falls in the initial or terminal category of an open-ended distribution. (For more information on medians, see the discussion under “Derived Measures” in appendix B.)
- A minus sign “-” preceding a figure denotes decrease.

The following geographic abbreviations are used in the tables and explanations of subjects covered in this report:

- A “(pt.)” next to the name of a geographic area in a hierarchical presentation indicates that the geographic entity is only partially located in the superior geographic entity. For example, a “(pt.)” next to a place name in a county subdivision-place hierarchy indicates that the place is located in more than one county subdivision. (Places also may be “split” by county, congressional district, urban/rural, metropolitan area, voting district, and other geographic boundaries, depending on the presentation.) Other geographic entities also can be “split” by a higher-level entity. The exception is a tabulation block, which is unique within all geographic entities in census products.
- BG is block group.
- BNA is block numbering area.
- CDP is census designated place.
- CMSA is consolidated metropolitan statistical area.
- MA is metropolitan area.
- MSA is metropolitan statistical area.
- PMSA is primary metropolitan statistical area.
- TDSA is tribal designated statistical area.
- TJSA is tribal jurisdiction statistical area.
- unorg. is unorganized territory.

- VTD is voting district.

Census tables often include derived measures such as medians, means, percents, and ratios. More detailed information about derived measures is provided in appendix B.

GRAPHICS

Charts, statistical maps, and other graphic summaries are included in some 1990 census reports. If graphics are shown in a report, they are presented immediately after the “User Notes” section.

USER NOTES

User notes include corrections, errata, and related explanatory information. This section appears directly before the statistical tables in census reports unless graphics are shown. It presents information about unique characteristics of the report and changes or corrections made too late to be reflected in the text or tables themselves.

CONTENTS OF THE APPENDIXES

Appendix A—Provides definitions of the types of geographic areas and related information used in census reports.

Appendix B—Contains definitions for the subject-matter items used in census reports, including explanations of derived measures, limitations of the data, and comparability with previous censuses. The subjects are listed alphabetically. In reports that contain both population and housing characteristics, the population characteristics are described first, followed by the explanations of the housing subjects.

Appendix C—Provides information on confidentiality of the data, allocations and substitutions, and sources of errors in the data.

Appendix D—Explains the residence rules used in counting the population and housing units, presents a brief overview of data collection operations, and describes processing procedures used to convert data from unedited questionnaires to final 1990 publications and tapes. This appendix also clarifies the procedures used to collect data for persons abroad at the time of the census, where persons on military bases or away at school were counted, how data were collected for persons in institutions, and which citizens of foreign countries were included in the U.S. data.

Appendix E—Presents a facsimile of the 1990 census questionnaire pages and the respondent instructions used to collect the data in this report.

Appendix F—Summarizes the 1990 census data products program by describing the information available in printed reports and in other sources, such as microfiche or computer tape; and provides information on where to obtain assistance.

Appendix G—Contains maps depicting the geographic areas shown in this report.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

[Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. Tables 1 through 12 show 100-percent characteristics. Tables 13 through 32 show sample characteristics. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B]

Subject	State and congressional district	County	Place and (in selected States) county subdivision (10,000 or more) ¹	American Indian and Alaska Native area
POPULATION CHARACTERISTICS				
Age	1, 2, 17*	2	2	6
Voting age persons.....	1, 2, 17*	2	2	6
Ancestry	13	...	...	...
Citizenship	13, 14	...	...	...
Class of worker	15	...	...	...
Disability	14, 21	21	21	...
Educational attainment.....	14, 17*, 19	19	19	23
Family type and presence of own children	13, 17*, 18	18	18	...
Fertility.....	13	...	...	...
Group quarters.....	1, 4	4	4	...
Hispanic origin	1, 3, 17*	3	3	...
Household type and relationship	1, 4	4	4	...
Income in 1989	16, 17*, 22	22	22	23
Industry	15	...	...	...
Labor force status.....	15, 17*, 20	20	20	23
For persons 16 to 19 years by school enrollment and educational attainment.....	15, 17*	...	...	...
Labor force status in 1989—				
Weeks and hours worked	15, 20	20	20	...
Land area	1, 5	5	5	...
Language spoken at home and ability to speak English.....	14, 18	18	18	...
Marital status	13	...	...	...
Means of transportation to work	14, 20	20	20	...
Nativity.....	13, 14, 18	18	18	...
Occupation.....	15	...	...	...
Period of military service	14	...	...	...
Place of birth	14, 18	18	18	...
Population density.....	5	5	5	...
Poverty status in 1989	16, 17*, 22	22	22	23
Race	1, 3, 17*	3	3	...
Residence in 1985	14, 18	18	18	...
School enrollment and type of school	14, 17*, 19	19	19	23
Sex.....	1, 3, 17*, 20	3, 20	3, 20	6
Urban, rural, and farm residence (persons)	13	...	...	...
Veteran status	14, 19	19	19	...
Workers in family in 1989	15	...	...	...

... Not applicable for this report.

* Data for table 17 are shown for White; Black; American Indian, Eskimo, or Aleut; Asian or Pacific Islander; and Hispanic origin.

¹The selected States are: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

TABLE FINDING GUIDE

Subjects by Type of Geographic Area and Table Number

[Subjects covered in this report are shown on the left side, and types of geographic areas are shown at the top. Tables 1 through 12 show 100-percent characteristics. Tables 13 through 32 show sample characteristics. For a description of area classifications, see appendix A. For definitions and explanations of subject characteristics, see appendix B]

Subject	State and congressional district	County	Place and (in selected States) county subdivision (10,000 or more) ¹	American Indian and Alaska Native area
HOUSING CHARACTERISTICS				
Age of householder	26	...	...	...
Bedrooms	24, 29	29	29	...
Condominium status	26, 29	29	29	...
Contract rent	7, 10	10	10	12
Gross rent	26, 28*, 31	31	31	32
Hispanic origin of householder	11, 28*	11	11	...
House heating fuel	25, 30	30	30	...
Household income in 1989	26, 27	...	...	...
Household type and relationship .....	...	...	...	12
Householder 65 years and over	25	...	...	...
Kitchen facilities	25, 29	29	29	...
Land area .....	...	...	...	12
Meals included in rent	10	10	10	...
Mortgage status and selected monthly owner costs	27, 28*, 31	31	31	32
Persons per room	7, 8, 25	8	8	...
Persons in unit	26	...	...	...
Persons per unit	9, 10	9, 10	9, 10	...
Plumbing facilities	25, 28*, 29	29	29	32
Race of householder	11, 28*	11	11	...
Rooms	7, 8, 9, 10	8, 9, 10	8, 9, 10	...
Sewage disposal	25, 29	29	29	...
Source of water	25, 29	29	29	...
Telephone in unit	25, 30	30	30	...
Tenure	9, 10, 28*	9, 10	9, 10	12, 32
Tenure by race and Hispanic origin of householder	7	...	...	...
Units in structure	7, 8, 9, 10, 24	8, 9, 10	8, 9, 10	...
Vacancy characteristics	7, 8	8	8	...
Value	7, 9	9	9	12
Vehicles available	25, 28*, 30	30	30	32
Year householder moved into unit	26, 31	31	31	...
Year structure built	24, 29	29	29	...

... Not applicable for this report.

* Data for table 28 are shown for White householder; Black householder; American Indian, Eskimo, or Aleut householder; Asian or Pacific Islander householder; and householder of Hispanic origin.

¹The selected States are: Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin.

USER NOTES

Additional information concerning this 1990 census product may be available at a later date. If you wish to receive these *User Notes*, contact:

Data User Services Division
Customer Services
Bureau of the Census
Washington, DC 20233
301-763-4100

Questions concerning the content of this report may be directed to:

Housing and Household Economic Statistics Division
Bureau of the Census
Washington, DC 20233

Population Division
Bureau of the Census
Washington, DC 20233

ADDITIONAL DEFINITIONS AND EXPLANATIONS OF DATA

GENERAL

User Note 1

Age Reporting—Review of detailed 1990 information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age on April 1, 1990. In addition, there may have been a tendency for respondents to round up their age if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in completed months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous

censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the discussion on comparability under "Age" in appendix B.)

User Note 2

The user should note that there are limitations to many of these data. Please refer to the text provided with this report for further explanations on the limitations of the data.

User Note 3

This report series (CPH-4) includes 100-percent and sample data for population and housing characteristics. Tables 1 through 6 present data on general population characteristics based on tabulations of 100-percent data and tables 7 through 12 show 100-percent housing data. Tables 13 through 23 show sample data on social and economic characteristics and tables 24 through 32 show sample housing data.

User Note 4

Congressional districts of the 103rd Congress reflect boundaries based on the 1990 census for all States except Maine, where redistricting occurs in 1993. Court or legislative action may change congressional district boundaries in any State for subsequent Congresses during the decade. The Census Bureau will issue revised CPH-4 reports for any State undergoing further redistricting action based on the 1990 census.

User Note 5

Estimated population and housing unit totals based on tabulations from only the sample questionnaires (sample tabulations) may differ from the official counts as tabulated from every census questionnaire (100-percent tabulations). Such differences result, in part, because the sample tabulations are based on information from a sample of households rather than from all households (sampling error). Differences also can occur because the interview situation (length of questionnaire, effect of the interviewer, etc.) and the processing rules differ between the 100-percent and sample tabulations. These types of differences are referred to as nonsampling errors. (For more information on nonsampling error, see appendix C.)

The 100-percent data are the official counts and should be used as the source of information on population and housing items collected on the 100-percent questionnaire, such as age, race, Hispanic origin, number of rooms, and tenure. This is especially appropriate when the primary focus is on counts of the population or housing units for small areas such as census tracts/BNA's, block groups, and for American Indian and Alaska Native areas. For estimates of counts of persons and housing units by characteristics asked only on a sample basis (such as education, labor force status, income, and source of water), the sample estimates should be used within the context of the error associated with them.

Many users are interested in tabulations of items collected on the sample cross-classified by items collected on a 100-percent basis such as age, race, sex, Hispanic origin, and housing units by tenure. Given the way the weights were applied during sample tabulations, generally, there is exact agreement between sample estimates and 100-percent counts for total population and total housing units for most geographic areas. At the State level and higher geographic levels, sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of rooms and so on would be reasonably similar and, in some cases, the same.

At smaller geographic levels, including census tract/BNA, there is still general agreement between 100-percent counts and sample estimates of total population or housing units. At smaller geographic levels, however, there will be expected differences between sample estimates and 100-percent counts for population by age, sex, race, and Hispanic origin and for housing units by tenure, number of rooms and so on. In these cases, users may want to consider using derived measures (such as means and medians) or percent distributions. Whether using absolute numbers or derived measures for small population groups and for a small number of housing units in small geographic areas, users should be cautioned that the sampling error associated with these data may be large.

Even though the differences between sample estimates and 100-percent counts for these categories are generally small, the differences for the American Indian, as well as the Hispanic origin populations, are relatively larger than for other groups. The following provides some explanation for these differences.

State-level sample estimates of the number of American Indians are generally higher than the corresponding 100-percent counts. It appears the differences are primarily the result of proportionately higher reporting of "Cherokee" tribe on sample questionnaires. This phenomenon

occurs primarily in off-reservation areas. The reasons for the greater reporting of Cherokee on sample forms are not fully known at this time. The Census Bureau will do research to provide more information on this phenomenon.

For the Hispanic origin population, sample estimates at the State level are generally lower than the corresponding 100-percent counts. The majority of difference is caused by the 100-percent and sample processing of the Hispanic question on the sample questionnaire when the respondent did not mark any response category. When processing the sample, written entries in race or Hispanic origin as well as responses to questions only asked on the sample, such as ancestry and place of birth. These procedures led to a lower proportion of persons being assigned as Hispanic in sample processing than were assigned during 100-percent processing. The Census Bureau will evaluate the effectiveness of the 100-percent and sample procedures.

As in previous censuses, the Census Bureau will evaluate the quality of the data and make this information available to data users. In the meanwhile, both 100-percent and sample data serve very important purposes and, therefore, should be used within the limitations of the sampling and nonsampling errors.

User Note 6

Data presented in tables 27 and 31 for "Median selected monthly owner costs as a percentage of household income in 1989" (With a mortgage), "Median selected monthly owner costs as a percentage of household income in 1989" (Not mortgaged), and "Median gross rent as a percentage of household income in 1989" are inconsistent with the explanations for derived measures in appendix B. Specifically, when the median falls in the lower interval of the tabulation distribution, the estimated value obtained by linear interpolation is shown rather than the upper value of the category followed by a minus sign (-). The lower interval has an assumed range of 0.0 to 19.9 percent.

GEOGRAPHIC NAMES AND PRESENTATION

HAWAII

User Note 1

Census data products show data for Honolulu CDP, Honolulu County. Honolulu city is coextensive with Honolulu County, but, in agreement with the State of Hawaii, the Census Bureau does not show data separately for the city.

Table 1. General Characteristics of Persons: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
LAND AREA			
Square kilometers	16 636.5	470.2	16 166.3
Square miles	6 423.4	181.5	6 241.8
RACE AND HISPANIC ORIGIN			
All persons	1 108 229	554 119	554 110
White	369 616	161 228	208 388
Black	27 195	13 807	13 388
American Indian, Eskimo, or Aleut	5 099	1 893	3 206
Asian or Pacific Islander	685 236	368 904	316 332
Other race	21 083	8 287	12 796
Hispanic origin (of any race)	81 390	30 598	50 792
White, not of Hispanic origin	347 644	152 923	194 721
AGE			
All persons	1 108 229	554 119	554 110
Under 5 years	83 223	36 348	46 875
5 to 9 years	80 907	34 763	46 144
10 to 14 years	73 896	32 177	41 719
15 to 19 years	72 491	33 974	38 517
20 to 24 years	90 794	46 014	44 780
25 to 34 years	200 696	103 496	97 200
35 to 44 years	178 339	89 999	88 340
45 to 54 years	108 775	57 222	51 553
55 to 64 years	94 103	50 734	43 369
65 to 74 years	78 653	43 659	34 994
75 to 84 years	35 955	19 857	16 098
85 years and over	10 397	5 876	4 521
3 and 4 years	32 968	14 236	18 732
16 years and over	856 267	444 561	411 706
18 years and over	828 103	431 485	396 618
21 years and over	779 554	407 974	371 580
60 years and over	173 733	95 839	77 894
62 years and over	154 458	85 433	69 025
Median age	32.6	34.1	31.1
Female	544 338	275 339	268 999
Under 5 years	40 475	17 734	22 741
5 to 9 years	39 328	16 956	22 372
10 to 14 years	35 752	15 583	20 169
15 to 19 years	34 394	16 397	17 997
20 to 24 years	40 242	21 171	19 071
25 to 34 years	96 633	49 573	47 060
35 to 44 years	87 016	44 311	42 705
45 to 54 years	54 503	28 726	25 777
55 to 64 years	50 365	27 401	22 964
65 to 74 years	41 109	23 252	17 857
75 to 84 years	18 101	10 447	7 654
85 years and over	6 420	3 788	2 632
3 and 4 years	15 989	6 944	9 045
16 years and over	422 194	222 169	200 025
18 years and over	408 490	215 749	192 741
21 years and over	386 509	204 653	181 856
60 years and over	91 707	51 871	39 836
62 years and over	81 350	46 204	35 146
Median age	33.5	35.1	31.9
Male	563 891	278 780	285 111
Median age	31.8	33.1	30.3
VOTING-AGE PERSONS			
Persons 18 years and over	828 103	431 485	396 618
Male	419 613	215 736	203 877
Female	408 490	215 749	192 741
White	284 525	128 186	156 339
Black	18 845	9 710	9 135
American Indian, Eskimo, or Aleut	3 521	1 414	2 107
Asian or Pacific Islander	507 240	286 503	220 737
Other race	13 972	5 672	8 300
Hispanic origin (of any race)	50 200	20 228	29 972
HOUSEHOLD TYPE AND RELATIONSHIP			
All persons	1 108 229	554 119	554 110
In households	1 070 597	535 172	535 425
Householder	356 267	188 969	167 298
Family householder	263 456	133 144	130 312
Nonfamily householder	92 811	55 825	36 986
Male	49 705	28 814	20 891
Living alone	34 537	20 637	13 900
Female	43 106	27 011	16 095
Living alone	34 448	21 918	12 530
Spouse	210 468	106 174	104 294
Child	345 365	161 715	183 650
Grandchild	34 191	15 021	19 170
Other relatives	62 303	32 786	29 517
Nonrelatives	62 003	30 507	31 496
Institutionalized persons	7 805	5 269	2 536
Other persons in group quarters	29 827	13 678	16 149
Persons per household	3.01	2.83	3.20
Persons per family	3.48	3.37	3.58
Persons 65 years and over	125 005	69 392	55 613
In households	120 703	66 699	54 004
Householder	72 127	40 024	32 103
Nonfamily householder	22 515	13 117	9 398
Living alone	20 933	12 221	8 712
Male	6 508	3 608	2 900
Female	14 425	8 613	5 812
Spouse	27 848	15 187	12 661
Other relatives	17 549	9 870	7 679
Nonrelatives	3 179	1 618	1 561
Institutionalized persons	3 861	2 359	1 502
Other persons in group quarters	441	334	107

Table 2. Age: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Age													
	All persons	Under 5 years	16 years and over	18 years and over	18 to 20 years	21 to 24 years	25 to 44 years	45 to 54 years	55 to 59 years	60 to 64 years	65 years and over	75 years and over	85 years and over	Median age
The State -----	1 108 229	83 223	856 267	828 103	48 549	72 636	379 035	108 775	45 375	48 728	125 005	46 352	10 397	32.6
District 1 -----	554 119	36 348	444 561	431 485	23 511	37 131	193 495	57 222	24 287	26 447	69 392	25 733	5 876	34.1
COUNTY														
Honolulu County (pt.) -----	554 119	36 348	444 561	431 485	23 511	37 131	193 495	57 222	24 287	26 447	69 392	25 733	5 876	34.1
PLACE AND COUNTY SUBDIVISION														
Ewa Beach COP -----	14 315	1 055	10 535	9 957	853	1 059	4 162	1 664	679	587	953	291	54	28.6
Haleiwa COP -----	13 408	982	10 510	10 153	520	856	4 625	1 281	749	734	1 388	349	62	33.0
Honolulu COP -----	365 272	20 090	303 352	295 417	14 458	22 304	123 168	39 536	17 557	20 115	58 279	22 593	5 312	36.9
Milliani Town COP -----	29 359	2 472	20 813	19 819	1 157	1 340	11 478	3 197	875	666	1 106	300	32	30.9
Pearl City COP -----	30 993	2 118	24 476	23 498	1 508	2 310	9 320	4 046	1 765	1 813	2 736	779	156	32.7
Waimanalo COP -----	29 967	2 088	23 668	22 935	1 214	2 037	12 136	3 451	1 221	1 071	1 805	469	66	32.4
Waipahu COP (pt.) -----	6 378	658	4 536	4 322	315	521	1 868	528	237	231	622	214	42	27.5
Waipio COP -----	11 812	1 228	8 762	8 538	410	769	5 476	940	299	265	379	103	23	30.1
District 2 -----	554 110	46 875	411 706	396 618	25 038	35 505	185 540	51 553	21 088	22 281	55 613	20 619	4 521	31.1
COUNTY														
Hawaii County -----	120 317	9 447	89 089	85 802	4 061	4 904	39 219	11 880	4 983	5 669	15 086	5 722	1 181	34.3
Honolulu County (pt.) -----	282 112	25 383	207 882	200 133	15 506	23 329	93 697	24 677	10 273	10 211	22 440	7 820	1 738	28.6
Kalaheewa County -----	130	—	130	130	—	1	24	9	9	28	44	18	6	61.1
Kauai County -----	51 177	3 999	38 444	37 062	1 884	2 346	16 917	5 002	2 036	2 193	6 684	2 743	605	33.9
Molai County -----	100 374	7 846	76 161	73 491	3 587	4 925	35 683	9 970	3 787	4 180	11 359	4 316	991	33.4
PLACE AND COUNTY SUBDIVISION														
Hilo COP -----	37 808	2 685	28 599	27 484	1 573	1 774	10 990	3 918	1 718	1 981	5 530	2 215	511	35.1
Kahului COP -----	16 889	1 265	12 980	12 504	699	975	4 907	1 680	746	861	2 636	1 051	276	34.0
Kailua COP -----	36 818	2 504	28 793	27 848	1 467	2 157	12 430	4 295	1 729	1 786	3 984	1 215	223	34.8
Kaneohe COP -----	35 448	2 670	27 393	26 523	1 351	2 219	11 933	3 686	1 770	1 716	3 848	1 514	429	33.1
Kaneohe Station COP -----	11 662	1 597	8 170	8 048	1 272	2 667	4 010	68	5	8	18	4	—	22.1
Kihei COP -----	11 107	808	8 716	8 490	397	664	4 718	1 161	383	358	809	225	41	32.7
Schofield Barracks COP -----	19 597	2 509	13 540	13 287	2 298	3 343	7 373	205	18	21	29	4	—	22.2
Wahiawa COP -----	17 386	1 613	13 218	12 793	829	1 266	5 238	1 353	841	988	2 278	788	192	31.4
Wailuku COP -----	10 688	8 393	8 144	8 393	354	473	3 502	1 015	432	589	1 779	776	210	36.0
Waipahu COP (pt.) -----	25 057	2 061	18 762	17 946	1 255	1 870	7 187	2 525	1 225	1 219	2 665	1 021	230	30.0

Table 3. Sex, Race, and Hispanic Origin: 1990

[For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Sex		Race				Hispanic origin (of any race)	Not of Hispanic origin				
	All persons	Male	Female	White	Black	American Indian, Eskimo, or Aleut		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Other race
The State -----	1 108 229	563 891	544 338	369 616	27 195	5 099	81 390	347 644	25 916	4 001	646 404	2 874
District 1 -----	554 119	278 780	275 339	161 228	13 807	1 893	30 598	152 923	13 189	1 533	354 635	1 241
COUNTY												
Honolulu County (pt.) -----	554 119	278 780	275 339	161 228	13 807	1 893	30 598	152 923	13 189	1 533	354 635	1 241
PLACE AND COUNTY SUBDIVISION												
Ewa Beach CDP -----	14 315	7 280	7 035	3 296	207	39	1 640	2 947	193	28	9 454	53
Haleiwa CDP -----	13 408	6 751	6 657	3 256	279	27	1 053	3 047	255	20	9 012	21
Honolulu CDP -----	365 272	180 357	184 915	97 527	4 821	1 126	16 704	93 047	4 527	912	249 290	792
Mililani Town CDP -----	29 359	14 806	14 553	10 032	842	102	2 573	9 587	820	86	17 216	77
Pearl City CDP -----	30 993	15 656	15 337	6 632	786	83	2 043	6 102	758	67	21 925	98
Waipahu CDP -----	29 967	15 121	14 846	8 418	484	125	1 683	7 926	664	112	19 508	74
Waipahu CDP (pt.) -----	6 378	3 180	3 198	8 842	127	46	808	7 707	109	30	4 713	11
Waipio CDP -----	11 812	6 006	5 806	3 405	357	24	648	3 212	345	21	7 559	27
District 2 -----	554 110	285 111	268 999	208 388	13 388	3 206	50 792	194 721	12 727	2 468	291 769	1 633
COUNTY												
Hawaii County -----	120 317	60 665	59 652	47 736	615	868	11 134	44 421	566	661	63 185	350
Honolulu County (pt.) -----	282 112	147 214	134 898	103 144	12 068	1 639	26 286	96 693	11 528	1 267	145 406	932
Koolauwa County -----	130	80	50	30	11	—	11	24	—	—	95	—
Kouai County -----	51 177	25 951	25 226	17 712	211	178	5 580	16 235	193	149	28 914	106
Maui County -----	100 374	51 201	49 173	39 766	494	521	7 781	37 348	440	391	54 169	245
PLACE AND COUNTY SUBDIVISION												
Hilo CDP -----	37 808	18 442	19 366	10 075	214	210	3 226	9 146	199	145	24 908	184
Kahului CDP -----	16 889	8 391	8 498	2 658	79	42	1 491	2 298	66	35	12 958	41
Kailua CDP -----	36 818	18 589	18 229	21 242	501	192	2 016	20 393	468	164	13 657	120
Kaneohe CDP -----	35 448	17 645	17 803	11 052	416	155	2 449	10 346	393	117	22 070	73
Kaneohe Station CDP -----	11 662	7 744	3 918	7 940	2 026	112	1 474	7 450	1 943	85	3 532	38
Kiheti CDP -----	11 107	5 750	5 357	6 853	87	99	862	6 552	83	63	3 532	15
Schofield Barracks CDP -----	19 597	12 571	7 026	11 921	4 955	179	2 099	11 441	4 808	162	1 043	44
Waianae CDP -----	17 386	8 641	8 745	3 998	712	105	1 861	3 560	4 675	70	1 113	107
Wahiawa CDP -----	10 688	5 350	5 338	2 486	47	44	687	2 331	44	30	7 566	30
Waiuku CDP (pt.) -----	25 057	12 570	12 487	2 792	492	103	2 818	2 338	431	60	19 340	70

Table 4. Household, Family, and Group Quarters Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]						Family households				Nonfamily households				Persons per—		Persons in group quarters		
										Householder living alone								
										65 years and over								
	Persons in households	All households	Total	Married- couple family	Female house- holder, no husband present	Total	Total	Total	Female	House- hold	Family	Total	Institution- alized per- sons	Other persons in group quarters				
The State -----	1 070 597	356 267	263 456	210 468	37 409	92 811	68 985	20 933	14 425	3.01	3.48	37 632	7 805	29 827				
District 1 -----	535 172	188 969	133 144	106 174	19 382	55 825	42 555	12 221	8 613	2.83	3.37	18 947	5 269	13 678				
COUNTY																		
Honolulu County (pt.) -----	535 172	188 969	133 144	106 174	19 382	55 825	42 555	12 221	8 613	2.83	3.37	18 947	5 269	13 678				
PLACE AND COUNTY SUBDIVISION																		
Ewa Beach CDP -----	14 295	3 355	2 974	2 399	391	381	242	73	42	4.26	4.42	20	—	20				
Halawa CDP -----	13 242	4 020	3 360	2 746	443	660	477	118	77	3.29	3.57	166	—	166				
Honolulu CDP -----	354 161	134 563	86 998	66 505	14 852	47 565	36 866	11 333	8 019	2.63	3.26	11 111	4 064	7 047				
Mililani Town CDP -----	29 359	8 776	7 693	6 811	606	1 083	711	73	50	3.35	3.55	—	—	—				
Pearl City CDP -----	30 982	8 876	7 862	6 691	809	1 014	731	199	143	3.49	3.67	11	—	11				
Waimalu CDP -----	29 803	10 372	7 690	6 501	856	2 682	1 798	165	118	2.87	3.29	164	157	7				
Waipahu CDP (pt.) -----	6 362	1 734	1 450	908	418	284	195	55	32	3.67	3.90	16	15	1				
Woipia CDP -----	11 812	4 032	3 125	2 761	232	907	626	23	14	2.93	3.31	—	—	—				
District 2 -----	535 425	167 298	130 312	104 294	18 027	36 986	26 430	8 712	5 812	3.20	3.58	18 685	2 536	16 149				
COUNTY																		
Hawaii County -----	118 632	41 461	30 235	23 436	4 760	11 226	8 542	2 902	1 912	2.86	3.33	1 685	575	1 110				
Honolulu County (pt.) -----	267 166	76 335	64 150	52 264	8 391	12 185	8 451	2 647	1 789	3.50	3.76	14 946	1 096	13 850				
Kalawao County -----	85	62	23	23	—	39	39	16	5	1.37	2.00	45	15	30				
Kauai County -----	50 523	16 295	12 367	9 942	1 605	3 928	2 832	1 109	740	3.10	3.52	654	382	272				
Maui County -----	99 019	33 145	23 537	18 629	3 271	9 608	6 566	2 038	1 366	2.99	3.48	1 355	468	887				
PLACE AND COUNTY SUBDIVISION																		
Hilo CDP -----	37 177	13 324	9 715	7 288	1 856	3 609	2 947	1 198	837	2.79	3.28	631	319	312				
Kohulu CDP -----	16 517	5 017	3 922	3 045	604	1 095	891	520	383	3.29	3.71	372	184	188				
Koiliua CDP -----	36 803	11 843	9 706	8 022	1 221	2 137	1 350	449	331	3.11	3.33	15	—	15				
Koneahe CDP -----	34 624	10 610	8 844	7 264	1 143	1 766	1 244	509	388	3.26	3.52	824	706	118				
Koneahe Station CDP -----	7 720	2 014	1 969	1 900	32	45	45	—	—	3.83	3.86	3 942	—	3 942				
Kihei CDP -----	11 096	4 133	2 587	2 074	325	1 546	974	185	134	2.68	3.23	11	—	11				
Schofield Barracks CDP -----	13 511	3 504	3 430	3 293	76	74	66	1	—	3.86	3.90	6 086	—	6 086				
Wahiawa CDP -----	17 340	5 619	4 600	3 491	837	1 019	823	316	219	3.09	3.39	46	35	11				
Wailuku CDP -----	10 477	3 675	2 528	1 938	400	1 147	902	316	218	2.85	3.44	211	160	51				
Woipahu CDP (pt.) -----	24 903	5 833	5 157	3 874	924	676	503	220	136	4.27	4.32	154	26	128				

Table 5. Land Area and Population Density: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All persons	Land area		Persons per—		State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All persons	Land area		Persons per—	
		Square kilo- meters	Square miles	Square kilometer	Square mile			Square kilo- meters	Square miles	Square kilometer	Square mile
The State	1 108 229	16 636.5	6 423.4	66.6	172.5	District 2—Con. COUNTY					
District 1	554 119	470.2	181.5	1 178.5	3 053.0	Hawaii County	120 317	10 433.1	4 028.2	11.5	29.9
COUNTY						Honolulu County (pt.)	282 112	1 084.3	418.7	260.2	673.8
Honolulu County (pt.)	554 119	470.2	181.5	1 178.5	3 053.0	Kalawao County	130	34.2	13.2	3.8	9.8
PLACE AND COUNTY SUBDIVISION						Kauai County	51 177	1 612.2	622.5	31.7	82.2
Ewa Beach CDP	14 315	3.7	1.4	3 868.9	10 225.0	Maui County	100 374	3 002.5	1 159.3	33.4	86.6
Halawa CDP	13 408	6.0	2.3	2 234.7	5 829.6	PLACE AND COUNTY SUBDIVISION					
Honolulu CDP	365 272	214.5	82.8	1 702.9	4 411.5	Hila CDP	37 808	140.6	54.3	268.9	696.3
Mililani Town CDP	29 359	10.1	3.9	2 906.8	7 527.9	Kahului CDP	16 889	39.3	15.2	429.7	1 111.1
Pearl City CDP	30 993	12.9	5.0	2 402.6	6 198.6	Kailua CDP	36 818	17.2	6.6	2 140.6	5 578.5
Waimalu CDP	29 967	15.3	5.9	1 958.6	5 079.2	Kaneohe CDP	35 448	17.0	6.6	2 085.2	5 370.9
Waipahu CDP (pt.)	6 378	1.7	.6	3 751.8	10 630.0	Kaneohe Station CDP	11 662	11.4	4.4	1 023.0	2 650.5
Waipia CDP	11 812	3.1	1.2	3 810.3	9 843.3	Kihei CDP	11 107	26.3	10.2	422.3	1 088.9
District 2	554 110	16 166.3	6 241.8	34.3	88.8	Schofield Barracks CDP	19 597	7.1	2.7	2 760.1	7 258.1
						Wahiawa CDP	17 386	5.5	2.1	3 161.1	8 279.0
						Wailuku CDP	10 688	13.1	5.1	815.9	2 095.7
						Waipahu CDP (pt.)	25 057	5.0	1.9	5 011.4	13 187.9

Table 6. Selected Population Characteristics for American Indian and Alaska Native Areas: 1990

[The above table was omitted because there were no qualifying areas]

Table 7. General Characteristics of Housing Units: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
HOUSING UNITS			
All housing units.....	389 810	201 204	188 606
TENURE BY RACE AND HISPANIC ORIGIN OF HOUSEHOLDER			
Occupied housing units.....	356 267	188 969	167 298
Owner-occupied housing units.....	191 911	95 209	96 702
White.....	60 795	24 250	36 545
Black.....	962	489	473
American Indian, Eskimo, or Aleut.....	454	149	305
Asian or Pacific Islander.....	127 886	69 690	58 196
Other race.....	1 814	631	1 183
Hispanic origin (of any race).....	7 692	2 613	5 079
Renter-occupied housing units.....	164 356	93 760	70 596
White.....	77 630	40 724	36 906
Black.....	6 825	3 999	2 826
American Indian, Eskimo, or Aleut.....	1 132	500	632
Asian or Pacific Islander.....	74 632	46 597	28 035
Other race.....	4 137	1 940	2 197
Hispanic origin (of any race).....	12 484	5 776	6 708
ROOMS			
All housing units.....	389 810	201 204	188 606
1 or 2 rooms.....	71 630	47 611	24 019
3 or 4 rooms.....	136 579	71 555	65 024
5 or 6 rooms.....	125 023	52 258	72 765
7 or 8 rooms.....	43 321	22 287	21 034
9 or more rooms.....	13 257	7 493	5 764
PERSONS PER ROOM			
Owner-occupied housing units.....	191 911	95 209	96 702
1.00 or less.....	167 232	84 028	83 204
1.01 to 1.50.....	14 212	6 363	7 849
1.51 or more.....	10 467	4 818	5 649
Mean.....	.61	.59	.63
Renter-occupied housing units.....	164 356	93 760	70 596
1.00 or less.....	132 327	75 668	56 659
1.01 to 1.50.....	14 686	7 616	7 070
1.51 or more.....	17 343	10 476	6 867
Mean.....	.76	.76	.76
VACANCY STATUS			
Vacant housing units.....	33 543	12 235	21 308
For sale only.....	1 631	661	970
For rent.....	9 451	4 497	4 954
Rented or sold, not occupied.....	3 735	2 180	1 555
For seasonal, recreational, or occasional use.....	12 806	3 099	9 707
For migrant workers.....	82	11	71
Other vacant.....	5 838	1 787	4 051
UNITS IN STRUCTURE			
All housing units.....	389 810	201 204	188 606
1, detached.....	202 990	77 085	125 905
1, attached.....	34 041	18 260	15 781
2.....	8 649	4 550	4 099
3 or 4.....	15 533	9 032	6 501
5 to 9.....	22 258	13 801	8 457
10 to 19.....	21 273	13 779	7 494
20 to 49.....	21 693	15 348	6 345
50 or more.....	57 272	46 246	11 026
Mobile home or trailer.....	389	129	260
Other.....	5 712	2 974	2 738
VALUE			
Specified owner-occupied housing units.....	144 431	62 285	82 146
Less than \$20,000.....	747	129	618
\$20,000 to \$39,999.....	1 513	224	1 289
\$40,000 to \$59,999.....	2 825	228	2 597
\$60,000 to \$74,999.....	3 456	211	3 245
\$75,000 to \$99,999.....	7 909	578	7 331
\$100,000 to \$149,999.....	16 706	2 925	13 781
\$150,000 to \$199,999.....	21 119	6 487	14 632
\$200,000 to \$249,999.....	19 812	8 720	11 092
\$250,000 to \$299,999.....	19 867	10 002	9 865
\$300,000 or more.....	50 477	32 781	17 696
Median (dollars).....	245 300	311 200	190 900
CONTRACT RENT			
Specified renter-occupied housing units.....	161 530	92 933	68 597
Less than \$150.....	7 733	2 957	4 776
\$150 to \$199.....	3 451	1 799	1 652
\$200 to \$249.....	3 935	2 110	1 825
\$250 to \$299.....	4 782	2 696	2 086
\$300 to \$399.....	14 729	7 571	7 158
\$400 to \$599.....	35 167	21 274	13 893
\$600 to \$749.....	25 864	15 843	10 021
\$750 to \$999.....	25 164	14 983	10 181
\$1,000 or more.....	18 441	11 210	7 231
No cash rent.....	22 264	12 490	9 774
Median (dollars).....	599	615	564

Table 8. **Structural and Vacancy Characteristics: 1990**

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All housing units								Occupied housing units		Vacant housing units			
	Total	Units in structure						Mean number of rooms	Total	With 1.01 or more persons per room	Total	For se- sonal, recre- ational, or occa- sional use	Home- owner vacancy rate	Rental vacancy rate
		1 unit, de- tached	1 unit, attached	2 to 4 units	5 to 9 units	10 or more units	Mobile home, trailer, other							
The State -----	389 810	202 990	34 041	24 182	22 258	100 238	6 101	4.4	356 267	56 708	33 543	12 806	.8	5.4
District 1 -----	201 204	77 085	18 260	13 582	13 801	75 373	3 103	4.2	188 969	29 273	12 235	3 099	.7	4.6
COUNTY														
Honolulu County (pt.) -----	201 204	77 085	18 260	13 582	13 801	75 373	3 103	4.2	188 969	29 273	12 235	3 099	.7	4.6
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP -----	3 426	2 707	226	151	215	79	48	4.9	3 355	1 061	71	3	.2	2.9
Holowea CDP -----	4 094	2 385	428	188	402	632	59	5.0	4 020	667	74	2	.4	1.7
Hanalei CDP -----	145 796	48 728	8 920	9 601	9 158	66 868	2 521	3.9	134 563	21 782	11 233	3 031	.9	5.4
Milliani Town CDP -----	8 900	5 779	1 317	589	596	574	45	5.6	8 776	834	124	17	.4	1.8
Pearl City CDP -----	8 999	6 266	1 198	326	117	981	111	5.3	8 876	1 354	123	8	.2	1.6
Waimolu CDP -----	10 613	3 719	1 402	958	843	3 620	71	4.7	10 372	1 140	241	18	.4	3.8
Waipahu CDP (pt.) -----	1 762	578	70	156	431	438	89	3.9	1 734	614	28	—	—	1.6
Waipia CDP -----	4 087	1 983	335	318	812	615	24	4.3	4 032	575	55	1	.3	2.1
District 2 -----	188 606	125 905	15 781	10 600	8 457	24 865	2 998	4.6	167 298	27 435	21 308	9 707	1.0	6.6
COUNTY														
Hawaii County -----	48 253	36 622	1 399	2 150	1 642	5 561	879	4.6	41 461	5 155	6 792	2 045	1.5	10.3
Hanalei County (pt.) -----	80 479	49 468	10 654	5 802	4 484	9 005	1 066	4.9	76 335	14 253	4 144	1 363	.6	3.6
Kalawao County -----	101	100	1	—	—	—	—	2.2	62	3	39	22	—	—
Kauai County -----	17 613	13 934	1 158	1 053	446	647	375	4.6	16 295	2 613	1 318	333	.7	4.3
Mouii County -----	42 160	25 781	2 569	1 595	1 885	9 652	678	4.2	33 145	5 411	9 015	5 944	1.5	9.9
PLACE AND COUNTY SUBDIVISION														
Hila CDP -----	14 134	10 161	409	729	340	2 286	209	4.7	13 324	1 414	810	91	.3	6.9
Kohului CDP -----	5 136	3 455	902	74	125	457	123	4.4	5 017	1 106	119	8	.1	3.4
Kailua CDP -----	12 225	9 146	904	432	229	1 346	168	5.7	11 843	984	382	104	.6	2.8
Konehe CDP -----	10 849	7 354	670	503	578	1 628	116	5.1	10 610	1 368	239	31	.5	2.7
Kanehe Station CDP -----	2 030	323	1 040	523	134	1	9	5.5	2 014	136	16	—	—	.1
Kihei CDP -----	6 497	2 346	435	166	497	2 981	72	3.7	4 133	536	2 364	1 768	6.9	8.5
Schafeld Barracks CDP -----	3 556	271	1 178	1 163	588	325	31	5.2	3 504	300	52	4	4.3	.4
Wahiawa CDP -----	5 765	3 489	473	446	477	811	69	4.4	5 619	1 067	146	5	.2	2.4
Wailuku CDP -----	3 848	2 573	193	135	173	697	77	4.5	3 675	563	173	28	.5	4.0
Waipahu CDP (pt.) -----	5 977	3 509	391	523	402	1 042	110	4.8	5 833	1 837	144	3	.3	3.9

Table 9. Occupancy and Financial Characteristics for Owner-Occupied Housing Units: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All owner-occupied housing units				Specified owner-occupied housing units									
	Total	1 unit, de- tached or attached	Persons per unit	Mean number of rooms	Total	Value								
						Less than \$50,000	\$50,000 to \$99,999	\$100,000 to \$149,999	\$150,000 to \$199,999	\$200,000 to \$299,999	\$300,000 or more	Lower quartile (dollars)	Median (dollars)	Upper quartile (dollars)
The State	191 911	153 596	3.19	5.2	144 431	3 339	13 111	16 706	21 119	39 679	50 477	156 800	245 300	358 800
District 1	95 209	65 433	3.06	5.2	62 285	455	915	2 925	6 487	18 722	32 781	227 500	311 200	436 100
COUNTY														
Honolulu County (pt.)	95 209	65 433	3.06	5.2	62 285	455	915	2 925	6 487	18 722	32 781	227 500	311 200	436 100
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP	2 319	2 041	4.45	5.2	1 938	12	61	286	436	934	209	164 100	216 900	267 200
Halawa CDP	2 779	2 227	3.31	5.4	2 105	19	20	67	202	731	1 066	228 900	302 000	380 600
Honolulu CDP	63 261	39 776	2.88	5.1	37 759	342	608	1 562	2 993	8 947	23 307	247 400	353 900	500 000+
Milliani Town CDP	6 820	5 794	3.37	5.7	5 583	16	18	129	608	2 424	2 388	229 800	285 300	353 200
Pearl City CDP	6 017	5 675	3.64	5.8	5 437	22	37	278	1 041	2 599	1 460	199 200	252 300	307 900
Waimalu CDP	6 662	4 248	3.08	5.2	4 054	13	29	200	483	1 055	2 274	227 800	325 500	448 300
Waipahu CDP (pt.)	560	479	4.29	5.1	455	6	21	86	120	163	59	150 300	197 900	261 400
Waipia CDP	2 846	1 951	3.13	4.6	1 874	5	7	36	220	851	755	229 800	282 300	342 300
District 2	96 702	88 163	3.32	5.3	82 146	2 884	12 196	13 781	14 632	20 957	17 696	118 500	190 900	285 600
COUNTY														
Hawaii County	25 336	24 063	2.93	5.2	21 910	1 832	7 582	4 969	3 190	2 500	1 837	77 000	113 000	176 400
Honolulu County (pt.)	42 701	38 283	3.61	5.5	36 256	522	2 164	4 230	6 139	11 980	11 221	167 200	242 800	332 900
Kalawao County	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kauai County	9 582	9 042	3.28	5.2	8 414	168	996	2 090	1 938	1 854	1 368	122 000	171 500	254 800
Mauai County	19 083	16 775	3.23	5.0	15 566	362	1 454	2 492	3 365	4 623	3 270	141 500	202 100	284 300
PLACE AND COUNTY SUBDIVISION														
Hilo CDP	8 010	7 603	2.94	5.6	7 081	264	2 638	2 281	1 156	554	188	84 700	111 800	154 100
Kahului CDP	2 974	2 829	3.55	5.1	2 712	30	147	559	896	951	129	145 600	183 600	233 200
Kailua CDP	8 294	7 537	3.21	6.2	7 127	19	49	312	725	2 079	3 943	236 400	318 900	417 200
Kaneohe CDP	7 452	6 294	3.32	5.6	5 993	21	87	670	1 175	2 398	1 642	180 600	242 700	313 700
Kaneohe Station CDP	2	1	4.50	6.5	1	—	—	—	—	—	1	325 000	350 000	375 000
Kihei CDP	2 059	1 293	2.89	4.7	1 232	4	26	112	273	541	276	184 800	232 400	293 100
Schofield Barracks CDP	22	10	3.95	4.8	10	2	—	3	—	3	2	106 300	175 000	241 700
Wahiawa CDP	2 657	2 478	3.16	5.4	2 336	17	143	444	705	745	282	147 900	189 000	249 900
Wailuku CDP	2 022	1 803	3.07	5.4	1 674	38	203	309	345	410	369	126 300	190 900	286 300
Waipahu CDP (pt.)	3 335	3 051	4.69	5.6	2 881	10	31	245	646	1 260	689	184 300	240 300	297 500

Table 10. **Occupancy and Financial Characteristics for Renter-Occupied Housing Units: 1990**

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All renter-occupied housing units				Specified renter-occupied housing units paying cash rent									
	Total	1 unit, de- tached or attached	Persons per unit	Mean number of rooms	Total	Contract rent								With meals included in rent
						Less than \$250	\$250 to \$499	\$500 to \$749	\$750 to \$999	\$1,000 or more	Lower quartile (dollars)	Median (dollars)	Upper quartile (dollars)	
The State -----	164 356	71 634	2.78	3.7	139 266	15 119	36 779	43 763	25 164	18 441	401	599	837	599
District 1 -----	93 760	27 478	2.60	3.4	80 443	6 866	20 339	27 045	14 983	11 210	430	615	851	318
COUNTY														
Honolulu County (pt.) -----	93 760	27 478	2.60	3.4	80 443	6 866	20 339	27 045	14 983	11 210	430	615	851	318
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP -----	1 036	835	3.83	4.3	985	30	191	372	291	101	521	701	875	3
Halowae CDP -----	1 241	540	3.25	4.2	1 089	184	314	139	172	280	335	603	1 000+	3
Honolulu CDP -----	71 302	15 965	2.41	3.0	65 346	6 276	18 175	22 912	10 087	7 896	408	582	791	293
Million Town CDP -----	1 956	1 223	3.24	5.1	1 891	37	186	157	590	921	789	990	1 000+	1
Pepee City CDP -----	2 859	1 702	3.18	4.2	2 233	139	230	957	596	311	582	716	896	6
Waimalu CDP -----	3 710	817	2.51	3.8	3 602	42	243	778	1 602	937	721	865	1 000+	3
Waipohu CDP (pt.) -----	1 174	162	3.37	3.3	1 159	100	386	604	60	9	427	518	594	4
Waipio CDP -----	1 186	348	2.46	3.7	1 164	1	16	244	684	219	761	867	974	-
District 2 -----	70 596	44 156	3.03	4.0	58 823	8 253	16 440	16 718	10 181	7 231	360	564	816	281
COUNTY														
Hawaii County -----	16 125	9 877	2.76	3.8	13 941	2 841	5 797	3 154	1 414	735	288	428	626	20
Honolulu County (pt.) -----	33 634	19 755	3.36	4.2	26 813	2 787	6 892	8 213	5 036	3 885	405	615	860	207
Koolowao County -----	62	62	1.37	2.4	4	4	-	-	-	-	100-	100-	100-	-
Kouai County -----	6 713	5 039	2.85	3.9	5 822	1 253	1 392	1 473	1 092	612	301	532	807	17
Mouie County -----	14 062	9 423	2.66	3.6	12 243	1 368	2 359	3 878	2 639	1 999	434	658	899	37
PLACE AND COUNTY SUBDIVISION														
Hilo CDP -----	5 314	2 605	2.57	3.7	4 970	1 078	2 732	1 000	140	20	270	371	491	6
Kohului CDP -----	2 043	1 440	2.92	3.4	1 774	363	423	645	285	58	315	536	718	15
Kailua CDP -----	3 549	2 224	2.87	4.4	3 334	51	338	988	727	1 230	624	850	1 000+	5
Koneahe CDP -----	3 158	1 577	3.13	4.2	2 956	172	586	642	742	814	493	776	1 000+	154
Koneahe Station CDP -----	2 012	1 357	3.83	5.5	674	1	355	107	166	45	407	488	814	3
Kihei CDP -----	2 074	1 163	2.48	3.5	1 952	19	171	650	587	525	635	808	1 000+	2
Schofield Barracks CDP -----	3 482	1 417	3.86	5.2	1 684	4	1 305	181	140	54	360	402	485	2
Wahiawa CDP -----	2 962	1 399	3.02	3.5	2 807	338	1 097	1 005	332	35	359	494	646	1
Wailuku CDP -----	1 653	862	2.59	3.4	1 469	159	596	513	149	52	353	490	639	2
Waipohu CDP (pt.) -----	2 498	813	3.71	3.8	2 373	345	383	1 187	321	137	441	604	697	6

Table 11. **Occupied Housing Units by Race and Hispanic Origin of Householder: 1990**

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All occupied housing units	Race of householder					Householder of Hispanic origin (of any race)	Householder not of Hispanic origin				
		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Other race		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Other race
The State	356 267	138 425	7 787	1 586	202 518	5 951	20 176	132 497	7 544	1 286	194 214	550
District 1	188 969	64 974	4 488	649	116 287	2 571	8 389	62 476	4 366	545	112 938	255
COUNTY												
Honolulu County (pt.)	188 969	64 974	4 488	649	116 287	2 571	8 389	62 476	4 366	545	112 938	255
PLACE AND COUNTY SUBDIVISION												
Ewa Beach CDP	3 355	1 025	56	8	2 155	111	325	969	54	5	1 991	11
Halawa CDP	4 020	1 224	75	12	2 652	57	240	1 182	70	8	2 517	3
Honolulu CDP	134 563	44 441	1 792	427	86 411	1 492	5 123	42 882	1 731	355	84 294	178
Mililani Town CDP	8 776	3 404	288	31	4 952	101	364	3 289	286	29	4 794	14
Pearl City CDP	8 876	2 191	310	22	6 214	139	496	2 043	300	16	6 008	13
Waimalu CDP	10 372	3 758	327	50	6 101	136	517	3 576	320	45	5 899	15
Waipahu CDP (pt.)	1 734	295	44	13	1 317	65	206	259	43	12	1 212	2
Waipio CDP	4 032	1 418	164	11	2 383	56	168	1 365	162	11	2 319	7
District 2	167 298	73 451	3 299	937	86 231	3 380	11 787	70 021	3 178	741	81 276	295
COUNTY												
Hawaii County	41 461	18 892	207	267	21 373	722	2 794	18 005	194	223	20 167	78
Honolulu County (pt.)	76 335	32 284	2 857	439	38 902	1 853	5 656	30 815	2 769	336	36 607	152
Kalawao County	62	12	—	—	50	—	9	6	—	—	47	—
Kauai County	16 295	6 581	66	60	9 288	300	1 367	6 200	63	48	8 598	19
Mouli County	33 145	15 682	169	171	16 618	505	1 961	14 995	152	134	15 857	46
PLACE AND COUNTY SUBDIVISION												
Hilo CDP	13 324	3 977	77	52	8 993	225	833	3 724	73	41	8 613	40
Kahului CDP	5 017	911	23	10	3 974	99	347	820	20	6	3 814	10
Kailua CDP	11 843	7 502	188	58	3 954	141	503	7 285	179	46	3 809	21
Kaneohe CDP	10 610	3 887	131	47	6 391	154	558	3 721	125	33	6 161	12
Kaneohe Station CDP	2 014	1 434	352	21	68	139	231	1 364	340	16	59	4
Kihei CDP	4 133	2 941	38	36	1 049	69	240	2 857	35	28	968	5
Schofield Barrocks CDP	3 504	2 204	859	17	155	269	372	2 129	845	15	142	1
Wahiawa CDP	5 619	1 477	259	36	3 683	164	499	1 346	250	24	3 481	19
Wailuku CDP	3 675	959	15	14	2 633	54	182	905	15	11	2 558	4
Waipahu CDP (pt.)	5 833	823	157	25	4 701	127	603	719	149	15	4 337	10

Table 12. **Selected Housing and Household Characteristics and Land Area for American Indian and Alaska Native Areas: 1990**

[The above table was omitted because there were no qualifying areas]

Table 13. **General, Family, and Fertility Characteristics: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District	The State	District 1	District 2
URBAN, RURAL, AND FARM RESIDENCE			
All persons	1 108 229	554 174	554 055
Urban	985 819	552 983	432 836
Inside urbanized area	747 028	552 983	194 045
Outside urbanized area	238 791	—	238 791
Rural	122 410	1 191	121 219
Farm	6 277	—	6 277
ANCESTRY			
All persons	1 108 229	554 174	554 055
Ancestry specified	1 048 368	525 134	523 234
Single ancestry	765 381	398 887	366 494
Multiple ancestry	282 987	126 247	156 740
Ancestry unclassified or not reported	59 861	29 040	30 821
Total ancestries reported	1 331 350	651 381	679 969
Arab	1 161	731	430
Austrian	1 965	838	1 127
Belgian	508	226	282
Canadian	1 699	974	725
Czech	2 256	1 092	1 164
Danish	3 455	1 418	2 037
Dutch	9 839	4 437	5 402
English	71 573	32 896	38 677
Finnish	1 422	555	867
French (except Basque)	21 750	9 533	12 217
French Canadian	3 976	1 959	2 017
German	102 883	46 834	56 049
Greek	1 589	707	882
Hungarian	2 631	1 299	1 332
Irish	65 587	30 525	35 062
Italian	21 692	9 689	12 003
Lithuanian	1 411	614	797
Norwegian	9 054	4 512	4 542
Polish	11 795	5 632	6 163
Portuguese	57 125	17 499	39 626
Romanian	610	351	259
Russian	5 246	2 450	2 796
Scotch-Irish	10 628	5 121	5 507
Scottish	13 784	5 919	7 865
Slovak	2 087	1 044	1 043
Subsaharan African	490	188	302
Swedish	10 396	4 714	5 682
Swiss	1 948	942	1 006
Ukrainian	1 234	533	701
United States or American	7 572	3 551	4 021
Welsh	4 596	1 990	2 606
West Indian (excluding Hispanic origin groups)	1 187	599	588
Yugoslavian	939	431	508
Other ancestries	877 262	451 578	425 684
NATIVITY AND CITIZENSHIP			
Persons under 18 years	280 225	122 438	157 787
Citizen	271 763	116 966	154 797
Native	267 298	114 094	153 204
Foreign born, naturalized citizen	4 465	2 872	1 593
Foreign born, not a citizen	8 462	5 472	2 990
Persons 18 years and over	828 004	431 736	396 268
Citizen	763 745	391 436	372 309
Native	678 227	339 667	338 560
Foreign born, naturalized citizen	85 518	51 769	33 749
Foreign born, not a citizen	64 259	40 300	23 959
FAMILY TYPE BY PRESENCE OF OWN CHILDREN			
Families	266 439	134 465	131 974
With own children under 18 years	127 030	59 096	67 934
Number of own children under 18 years	236 359	103 784	132 575
Married-couple families	215 835	109 120	106 715
With own children under 18 years	104 488	49 458	55 030
Number of own children under 18 years	196 682	88 491	108 191
Female householder, no husband present	35 368	18 187	17 181
With own children under 18 years	16 895	7 499	9 396
Number of own children under 18 years	30 260	11 969	18 291
MARITAL STATUS			
Males 15 years and over	441 319	226 050	215 269
Never married	149 075	78 449	70 626
Now married, except separated	245 717	123 824	121 893
Separated	6 168	3 079	3 089
Widowed	9 203	4 574	4 629
Divorced	31 156	16 124	15 032
Females 15 years and over	428 053	224 857	203 196
Never married	104 353	57 886	46 467
Now married, except separated	240 647	121 618	119 029
Separated	7 033	3 746	3 287
Widowed	38 243	21 224	17 019
Divorced	37 777	20 383	17 394
FERTILITY			
Children ever born per 1,000 women 15 to 24 years	289	221	358
Children ever born per 1,000 women 25 to 34 years	1 199	957	1 451
Children ever born per 1,000 women 35 to 44 years	1 812	1 623	2 009

Table 14. Social Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
PLACE OF BIRTH			
All persons	1 108 229	554 174	554 055
Native	945 525	453 761	491 764
Born in State of residence	621 992	298 613	323 379
Born in a different State	292 032	137 029	155 003
Born abroad	31 501	18 119	13 382
Foreign born	162 704	100 413	62 291
Naturalized citizen	89 983	54 641	35 342
Not a citizen	72 721	45 772	26 949
LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH			
Persons 5 years and over	1 026 209	518 329	507 880
Speak a language other than English	254 724	152 054	102 670
Do not speak English "very well"	124 418	78 354	46 064
Linguistically isolated	54 184	36 208	17 976
Speak Spanish	13 729	6 369	7 360
Do not speak English "very well"	3 402	1 548	1 854
Linguistically isolated	940	467	473
Speak an Asian or Pacific Island language	226 002	138 491	87 511
Do not speak English "very well"	117 863	75 364	42 499
Linguistically isolated	52 298	35 230	17 068
Linguistically isolated households	23 949	16 176	7 773
SCHOOL ENROLLMENT AND TYPE OF SCHOOL			
Persons 3 years and over enrolled in school	290 578	141 878	148 700
Preprimary school	21 276	9 899	11 377
Public school	10 739	4 416	6 323
Elementary or high school	186 653	82 542	104 111
Public school	157 102	65 811	91 291
College	82 649	49 437	33 212
Public college	66 131	39 940	26 191
EDUCATIONAL ATTAINMENT			
Persons 25 years and over	709 820	372 227	337 593
Less than 9th grade	71 806	35 739	36 067
9th to 12th grade, no diploma	69 700	33 420	36 280
High school graduate (includes equivalency)	203 893	100 693	103 200
Same college, no degree	142 881	73 945	68 936
Associate degree	59 116	29 380	29 736
Bachelor's degree	111 837	66 762	45 075
Graduate or professional degree	50 587	32 288	18 299
Percent high school graduate or higher	80.1	81.4	78.6
Percent bachelor's degree or higher	22.9	26.6	18.8
RESIDENCE IN 1985			
Persons 5 years and over	1 026 209	518 329	507 880
Same house	522 612	266 632	255 980
Different house in the United States	455 180	221 679	233 501
Same county	264 910	136 101	128 809
Different county	190 270	85 578	104 692
Same State	23 317	5 577	17 740
Different State	166 953	80 001	86 952
Northeast	16 432	8 426	8 006
Midwest	22 141	11 153	10 988
South	50 226	25 864	24 362
West	78 154	34 558	43 596
Puerto Rico	517	238	279
U.S. outlying area	2 825	1 667	1 158
Elsewhere	45 075	28 113	16 962
MEANS OF TRANSPORTATION TO WORK AND TRAVEL TIME TO WORK			
Workers 16 years and over	567 765	296 200	271 565
Car, truck, or van	459 811	230 247	229 564
Drove alone	343 505	170 537	172 968
Carpooled	116 306	59 710	56 596
Public transportation	41 821	31 737	10 084
Walked	31 935	15 819	16 116
Other means	14 971	8 273	6 698
Worked at home	19 227	10 124	9 103
Mean travel time to work (minutes)	23.8	23.4	24.2
VETERAN STATUS AND PERIOD OF SERVICE			
Civilian veterans 16 years and over	119 256	63 031	56 225
May 1975 or later service only	18 933	10 044	8 889
September 1980 or later service only	11 507	6 236	5 271
Served 2 or more years	10 442	5 664	4 778
Vietnam era, no Korean conflict	37 069	18 614	18 455
Vietnam era and Korean conflict	4 791	2 916	1 875
February 1955 to July 1964 only	12 237	6 274	5 963
Korean conflict, no World War II	15 122	7 633	7 489
Korean conflict and World War II	2 449	1 435	1 014
World War II, no Korean conflict	27 738	15 657	12 081
World War I	132	80	52
Other service	785	378	407
DISABILITY			
Civilian noninstitutionalized persons 16 to 64 years	672 828	344 367	328 461
With a mobility or self-care limitation	27 080	14 077	13 003
With a mobility limitation	11 029	5 226	5 803
In labor force	2 817	1 524	1 293
With a self-care limitation	21 245	11 344	9 901
With a work disability	44 370	19 688	24 682
In labor force	19 765	9 110	10 655
Prevented from working	20 330	8 712	11 618
No work disability	628 458	324 679	303 779
In labor force	509 004	264 560	244 444
Civilian noninstitutionalized persons 65 years and over	120 972	66 856	54 116
With a mobility or self-care limitation	21 251	11 656	9 595
With a mobility limitation	15 280	7 879	7 401
With a self-care limitation	13 477	7 744	5 733

Table 15. Labor Force Characteristics: 1990

(Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.)

State Congressional District	The State	District 1	District 2
LABOR FORCE STATUS			
Persons 16 years and over	855 518	444 711	410 807
In labor force	602 348	312 735	289 613
Civilian labor force	548 347	284 477	263 870
Employed	529 059	275 957	253 102
Unemployed	19 288	8 520	10 768
Females 16 years and over	421 315	221 861	199 454
In labor force	266 697	141 176	125 521
Civilian labor force	260 137	137 144	122 993
Employed	251 324	133 382	117 942
Unemployed	8 813	3 762	5 051
With own children under 6 years	68 218	30 889	37 329
In labor force	43 238	20 334	22 904
With own children 6 to 17 years only	68 083	32 668	35 415
In labor force	55 522	26 756	28 766
Own children under 6 years in families and subfamilies living with two parents	73 315	32 946	40 369
Both parents in labor force	43 764	20 455	23 309
Own children under 6 years in families and subfamilies living with one parent	22 307	8 894	13 413
Parent in labor force	13 725	5 858	7 867
Own children 6 to 17 years in families and subfamilies living with two parents	133 953	60 184	73 769
Both parents in labor force	97 716	44 315	53 401
Own children 6 to 17 years in families and subfamilies living with one parent	37 986	15 237	22 749
Parent in labor force	28 777	12 370	16 407
Persons 16 to 19 years	57 184	27 365	29 819
Not enrolled in school	14 962	6 023	8 939
Unemployed or not in labor force	4 546	1 831	2 715
Not high school graduate	4 267	1 901	2 366
Employed	1 981	878	1 103
Unemployed	564	229	335
Not in labor force	1 640	771	869
CLASS OF WORKER			
Employed persons 16 years and over	529 059	275 957	253 102
Private wage and salary workers	385 061	200 223	184 838
Local government workers	16 632	7 510	9 122
State government workers	52 127	27 892	24 235
Federal government workers	39 018	24 219	14 799
Self-employed workers	34 291	15 245	19 046
Unpaid family workers	1 930	868	1 062
OCCUPATION			
Employed persons 16 years and over	529 059	275 957	253 102
Managerial and professional specialty occupations	139 523	80 114	59 409
Executive, administrative, and managerial occupations	67 907	39 510	28 397
Professional specialty occupations	71 616	40 604	31 012
Technical, sales, and administrative support occupations	172 654	97 912	74 742
Technicians and related support occupations	18 404	11 123	7 281
Sales occupations	66 596	35 447	31 149
Administrative support occupations, including clerical	87 654	51 342	36 312
Service occupations	92 882	46 288	46 594
Private household occupations	1 075	415	660
Protective service occupations	10 956	5 015	5 941
Service occupations, except protective and household	80 851	40 858	39 993
Farming, forestry, and fishing occupations	15 328	2 809	12 519
Precision production, craft, and repair occupations	55 518	24 895	30 623
Operators, fabricators, and laborers	53 154	23 939	29 215
Machine operators, assemblers, and inspectors	15 380	7 954	7 426
Transportation and material moving occupations	18 796	8 027	10 769
Handlers, equipment cleaners, helpers, and laborers	18 978	7 958	11 020
INDUSTRY			
Employed persons 16 years and over	529 059	275 957	253 102
Agriculture, forestry, fisheries, and mining	16 832	2 925	13 907
Construction	42 071	17 486	24 585
Manufacturing	32 348	16 960	15 388
Nonurable goods	18 976	9 437	9 539
Durable goods	13 372	7 523	5 849
Transportation	33 792	19 585	14 207
Communications and other public utilities	13 161	7 342	5 819
Wholesale trade	19 478	10 993	8 485
Retail trade	102 149	55 419	46 730
Finance, insurance, and real estate	39 506	23 983	15 523
Business and repair services	23 629	12 263	11 366
Personal, entertainment, and recreation services	54 033	23 265	30 768
Professional and related services	109 110	61 163	47 947
Health services	35 758	20 410	15 348
Educational services	40 750	21 998	18 752
Other professional and related services	32 602	18 755	13 847
Public administration	42 950	24 573	18 377
WORK STATUS IN 1989			
Persons 16 years and over who worked in 1989	639 859	332 209	307 650
Usually worked 35 or more hours per week	515 623	268 794	246 829
50 to 52 weeks	380 096	201 003	179 093
40 to 49 weeks	67 468	35 272	32 196
27 to 39 weeks	22 505	10 413	12 092
Usually worked 1 to 34 hours per week, 40 to 52 weeks	64 997	34 284	30 713
WORKERS IN FAMILY IN 1989			
No workers	25 867	12 235	13 632
Mean family income (dollars)	25 062	28 609	21 879
1 worker	62 990	31 674	31 316
Mean family income (dollars)	38 511	42 398	34 579
2 or more workers	177 582	90 556	87 026
Mean family income (dollars)	61 254	65 421	56 917

Table 16. **Income and Poverty Status in 1989: 1990**

[Data based on a sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
INCOME IN 1989			
Households -----	356 748	189 285	167 463
Less than \$5,000-----	13 393	7 201	6 192
\$5,000 to \$9,999-----	18 011	8 313	9 698
\$10,000 to \$14,999-----	21 657	10 518	11 139
\$15,000 to \$24,999-----	53 305	27 697	25 608
\$25,000 to \$34,999-----	52 186	27 114	25 072
\$35,000 to \$49,999-----	68 063	35 667	32 396
\$50,000 to \$74,999-----	73 616	39 982	33 634
\$75,000 to \$99,999-----	31 076	17 015	14 061
\$100,000 or more-----	25 441	15 778	9 663
Median (dollars)-----	38 829	40 257	37 247
Mean (dollars)-----	47 972	50 322	45 317
Families -----	266 439	134 465	131 974
Less than \$5,000-----	5 411	2 478	2 933
\$5,000 to \$9,999-----	8 763	3 372	5 391
\$10,000 to \$14,999-----	13 306	5 646	7 660
\$15,000 to \$24,999-----	36 267	16 749	19 518
\$25,000 to \$34,999-----	38 048	18 139	19 909
\$35,000 to \$49,999-----	53 675	26 570	27 105
\$50,000 to \$74,999-----	62 526	33 198	29 328
\$75,000 to \$99,999-----	26 985	14 858	12 127
\$100,000 or more-----	21 458	13 455	8 003
Median (dollars)-----	43 176	46 389	40 385
Mean (dollars)-----	52 363	56 649	47 998
Nonfamily households -----	90 309	54 820	35 489
Median (dollars)-----	24 376	25 454	22 429
Mean (dollars)-----	31 318	31 987	30 283
Per capita income (dollars)-----	15 770	17 508	14 032
Per capita income, noninstitutionalized persons (dollars)-----	15 844	17 625	14 072
INCOME TYPE IN 1989			
Households -----	356 748	189 285	167 463
With earnings-----	307 955	163 829	144 126
Mean earnings (dollars)-----	45 570	47 517	43 357
With Social Security income-----	90 377	47 752	42 625
Mean Social Security income (dollars)-----	7 815	7 762	7 875
With public assistance income-----	24 240	10 294	13 946
Mean public assistance income (dollars)-----	5 272	5 053	5 433
With retirement income-----	71 005	37 681	33 324
Mean retirement income (dollars)-----	12 116	13 381	10 685
MEAN FAMILY INCOME IN 1989 BY FAMILY TYPE			
Families (dollars) -----	52 363	56 649	47 998
With own children under 18 years (dollars)-----	48 037	53 060	43 667
No own children under 18 years (dollars)-----	56 306	59 462	52 592
Married-couple families (dollars) -----	56 380	60 966	51 689
With own children under 18 years (dollars)-----	53 207	58 309	48 622
No own children under 18 years (dollars)-----	59 357	63 169	54 956
Female householder, no husband present (dollars) -----	31 947	35 593	28 088
With own children under 18 years (dollars)-----	20 467	23 447	18 089
No own children under 18 years (dollars)-----	42 446	44 114	40 156
POVERTY STATUS IN 1989			
All Income Levels In 1989			
Families -----	266 439	134 465	131 974
With related children under 18 years-----	143 331	66 694	76 637
With related children under 5 years-----	64 476	28 841	35 635
Married-couple families -----	215 835	109 120	106 715
With related children under 18 years-----	114 373	53 894	60 479
With related children under 5 years-----	53 258	24 194	29 064
Female householder, no husband present -----	35 368	18 187	17 181
With related children under 18 years-----	21 428	9 772	11 656
With related children under 5 years-----	8 220	3 553	4 667
Unrelated individuals for whom poverty status is determined -----	147 440	83 581	63 859
Nonfamily householder-----	90 309	54 820	35 489
Persons 65 years and over-----	25 532	14 820	10 712
Persons for whom poverty status is determined -----	1 071 352	536 260	535 092
Persons under 18 years-----	275 518	120 563	154 955
Persons under 5 years-----	80 522	35 274	45 248
Related children under 18 years-----	273 746	119 957	153 789
Related children 5 to 17 years-----	193 224	84 683	108 541
Persons 65 years and over-----	120 952	66 863	54 089
Persons 75 years and over-----	42 359	23 125	19 234
Income In 1989 Below Poverty Level			
Families -----	16 053	6 334	9 719
Percent below poverty level-----	6.0	4.7	7.4
With related children under 18 years-----	12 760	4 630	8 130
With related children under 5 years-----	7 213	2 644	4 569
Married-couple families -----	7 806	3 196	4 610
With related children under 18 years-----	5 380	1 987	3 393
With related children under 5 years-----	3 288	1 242	2 046
Female householder, no husband present -----	6 937	2 569	4 368
With related children under 18 years-----	6 382	2 249	4 133
With related children under 5 years-----	3 426	1 223	2 203
Unrelated individuals for whom poverty status is determined -----	29 435	15 246	14 189
Nonfamily householder-----	13 165	7 373	5 792
Persons 65 years and over-----	6 241	3 486	2 755
Persons for whom poverty status is determined -----	88 408	37 562	50 846
Percent below poverty level-----	8.3	7.0	9.5
Persons under 18 years-----	31 944	11 141	20 803
Persons under 5 years-----	10 137	3 578	6 559
Related children under 18 years-----	30 440	10 618	19 822
Related children 5 to 17 years-----	20 303	7 040	13 263
Persons 65 years and over-----	9 701	5 232	4 469
Persons 75 years and over-----	4 401	2 299	2 102
Ratio Of Income In 1989 To Poverty Level			
Persons below 50 percent of poverty level-----	35 088	16 565	18 523
Persons below 125 percent of poverty level-----	121 969	51 896	70 073
Persons below 200 percent of poverty level-----	242 798	104 861	137 937

Table 17. Selected Characteristics of Persons by Race and Hispanic Origin: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Hawaii					District 1		
	Race				Hispanic origin (of any race)	Race		
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander		White	Black	
SEX AND AGE								
All persons	370 270	26 669	5 596	686 391	78 742	161 025	13 463	
Male	198 479	15 829	2 919	336 511	40 489	86 909	7 907	
Female	171 791	10 840	2 677	349 880	38 253	74 116	5 556	
Under 5 years	28 233	3 298	474	48 333	9 062	11 060	1 514	
5 to 9 years	25 786	2 583	547	51 199	9 452	9 870	1 260	
10 to 14 years	21 159	1 729	399	50 059	8 065	7 779	874	
15 to 19 years	19 091	1 691	361	48 571	6 192	7 490	839	
20 to 24 years	33 347	4 890	660	47 425	7 633	14 954	2 194	
25 to 34 years	77 119	7 951	1 199	112 787	15 433	35 887	4 073	
35 to 44 years	69 559	2 837	1 110	102 099	9 897	29 343	1 713	
45 to 54 years	36 869	838	418	70 097	5 019	16 408	513	
55 to 64 years	25 033	476	279	66 857	4 188	11 571	241	
65 to 74 years	21 730	288	95	56 467	2 295	10 225	185	
75 to 84 years	9 735	88	43	24 504	1 243	5 024	57	
85 years and over	2 609	-	11	7 993	263	1 414	-	
3 and 4 years	10 922	1 236	183	19 774	3 648	4 341	509	
16 years and over	291 668	18 761	4 082	527 018	50 765	130 997	9 695	
18 years and over	284 497	18 298	3 923	507 800	48 253	128 105	9 418	
21 years and over	269 435	16 309	3 710	478 748	44 588	122 033	8 581	
60 years and over	46 853	634	304	124 078	5 863	22 598	385	
62 years and over	41 925	519	239	110 823	4 963	20 293	312	
Median age	32.4	24.1	28.0	33.7	24.3	33.1	25.1	
FAMILY TYPE BY PRESENCE OF OWN CHILDREN								
Families	93 981	6 197	1 122	160 617	15 173	41 014	3 459	
With own children under 18 years	46 896	4 422	680	72 127	9 491	19 158	2 319	
Married-couple families	79 291	5 603	845	126 662	11 130	35 320	3 115	
With own children under 18 years	38 600	3 943	485	59 260	6 831	16 308	2 030	
Female householder, no husband present	10 278	431	244	23 649	2 919	4 178	244	
With own children under 18 years	6 169	347	185	9 665	2 063	2 245	214	
SCHOOL ENROLLMENT AND TYPE OF SCHOOL								
Persons 3 years and over enrolled in school	86 055	7 572	1 640	189 661	26 803	36 450	3 876	
Preprimary	7 540	647	106	12 528	2 043	3 180	280	
Elementary or high school	52 245	4 547	1 080	124 968	19 951	19 915	2 312	
College	26 270	2 378	454	52 165	4 809	13 355	1 284	
EDUCATIONAL ATTAINMENT								
Persons 25 years and over	242 654	12 478	3 155	440 804	38 338	109 872	6 782	
Less than 9th grade	8 649	157	141	61 478	4 406	3 145	97	
9th to 12th grade, no diploma	17 322	565	350	49 881	5 588	6 775	228	
High school graduate (includes equivalency)	59 234	3 797	820	136 358	12 709	24 139	1 810	
Some college, no degree	63 050	5 044	1 057	71 282	8 594	28 281	2 806	
Associate degree	21 117	1 018	229	36 081	3 076	9 340	586	
Bachelor's degree	45 632	1 314	320	63 862	2 968	22 414	893	
Graduate or professional degree	27 650	583	238	21 862	997	15 778	362	
Percent high school graduate or higher	89.3	94.2	84.4	74.7	73.9	91.0	95.2	
Percent bachelor's degree or higher	30.2	15.2	17.7	19.4	10.3	34.8	18.5	
LABOR FORCE STATUS								
Persons 16 years and over	291 668	18 761	4 082	527 018	50 765	130 997	9 695	
In labor force	214 976	15 970	3 089	358 203	36 780	97 531	8 261	
Civilian labor force	176 853	7 070	2 572	354 027	32 618	77 166	4 100	
Employed	170 387	6 652	2 428	342 178	30 655	74 584	3 929	
Unemployed	6 466	418	144	11 849	1 963	2 582	171	
Not in labor force	76 692	2 791	993	168 815	13 985	33 466	1 434	
Females 16 years and over	134 036	6 760	2 040	272 300	24 648	59 692	3 675	
In labor force	85 650	5 008	1 375	171 002	15 898	38 940	2 874	
Civilian labor force	81 413	3 529	1 271	170 515	15 355	36 300	1 994	
Employed	78 101	3 315	1 200	165 496	14 457	34 993	1 917	
Unemployed	3 312	214	71	5 019	898	1 307	77	
Not in labor force	48 386	1 752	665	101 298	8 750	20 752	801	
Persons 16 to 19 years	15 667	1 393	267	38 789	4 794	6 171	719	
Not enrolled in school	5 377	729	99	8 330	1 643	1 901	339	
Unemployed or not in labor force	1 221	92	31	3 082	529	452	42	
Not high school graduate	1 141	85	46	2 900	495	387	39	
Employed	519	24	15	1 376	189	148	17	
Unemployed	148	-	-	390	100	39	-	
Not in labor force	412	46	31	1 129	206	182	22	
INCOME AND POVERTY STATUS IN 1989								
Households	138 950	7 488	1 770	202 694	19 495	65 226	4 346	
Less than \$5,000	4 802	160	112	8 030	984	1 972	73	
\$5,000 to \$9,999	6 327	189	180	10 770	1 644	2 480	86	
\$10,000 to \$14,999	8 655	634	202	11 554	1 752	3 619	368	
\$15,000 to \$24,999	22 653	2 140	325	26 992	3 620	10 535	1 188	
\$25,000 to \$34,999	21 522	2 025	278	27 285	2 822	9 963	1 141	
\$35,000 to \$49,999	26 511	1 338	282	38 886	3 834	12 440	818	
\$50,000 to \$74,999	26 953	689	282	44 861	3 309	13 311	483	
\$75,000 to \$99,999	11 096	206	62	19 560	956	5 272	119	
\$100,000 or more	10 431	107	47	14 756	574	5 634	70	
Mean income (dollars)	48 659	31 582	34 449	48 682	37 083	51 362	32 579	
Per capita income (dollars)	18 598	10 607	12 415	14 616	9 950	21 101	11 532	

Table 17. **Selected Characteristics of Persons by Race and Hispanic Origin: 1990—Con.**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Hawaii					District 1	
	Race				Hispanic origin (of any race)	Race	
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander		White	Black
INCOME AND POVERTY STATUS IN 1989—Con.							
All Income Levels in 1989							
Families -----	93 981	6 197	1 122	160 617	15 173	41 014	3 459
With related children under 18 years.....	50 048	4 522	726	84 908	10 586	20 341	2 366
With related children under 5 years.....	24 283	2 749	433	35 467	5 056	9 498	1 379
Married-couple families -----	79 291	5 603	845	126 662	11 130	35 320	3 115
With related children under 18 years.....	40 523	4 024	511	67 009	7 467	17 060	2 069
With related children under 5 years.....	20 983	2 490	318	28 169	3 855	8 492	1 238
Female householder, no husband present -----	10 278	431	244	23 649	2 919	4 178	244
With related children under 18 years.....	7 079	366	199	13 191	2 385	2 601	222
With related children under 5 years.....	2 379	193	105	5 336	949	814	105
Persons for whom poverty status is determined.....	350 567	22 225	5 231	675 363	75 560	152 443	11 771
Persons under 18 years.....	84 232	8 256	1 619	175 763	29 802	32 395	3 973
Persons under 5 years.....	27 811	3 265	455	47 372	8 841	10 936	1 492
Persons 65 years and over.....	32 779	371	149	86 591	3 661	16 037	237
Persons 75 years and over.....	11 293	88	54	30 530	1 405	5 940	57
Income in 1989 Below Poverty Level							
Families -----	4 666	346	178	10 351	1 910	1 213	140
With related children under 18 years.....	3 763	307	163	8 080	1 683	910	113
With related children under 5 years.....	2 140	260	94	4 486	925	493	98
Married-couple families -----	2 303	261	72	4 980	617	588	110
With related children under 18 years.....	1 539	231	57	3 407	433	359	92
With related children under 5 years.....	1 076	206	43	1 852	287	241	80
Female householder, no husband present -----	2 062	53	96	4 428	1 138	525	8
With related children under 18 years.....	1 971	53	96	3 975	1 115	478	8
With related children under 5 years.....	953	34	41	2 276	582	221	8
Persons for whom poverty status is determined.....	27 700	1 958	888	55 584	10 223	8 853	760
Persons under 18 years.....	8 306	969	408	21 327	5 296	1 759	334
Persons under 5 years.....	2 744	376	105	6 629	1 566	672	120
Persons 65 years and over.....	2 631	27	15	6 841	581	1 230	20
Persons 75 years and over.....	1 113	10	10	3 200	261	594	10

Table 17. Selected Characteristics of Persons by Race and Hispanic Origin: 1990—Con.

[Data based on a sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	District 1 — Can.			District 2					
	Race — Can.		Hispanic origin (af any race)	Race				Hispanic origin (of any race)	
	American Indian, Eskima, or Aleut	Asian or Pacific Islander		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander		
SEX AND AGE									
All persons	2 239	369 864	29 160	209 245	13 206	3 357	316 527	49 582	
Male	1 242	178 953	15 021	111 570	7 922	1 677	157 558	25 468	
Female	997	190 911	14 139	97 675	5 284	1 680	158 969	24 114	
Under 5 years	140	22 462	3 168	17 173	1 784	334	25 871	5 894	
5 to 9 years	215	23 555	2 907	15 916	1 323	332	27 644	6 545	
10 to 14 years	157	22 481	2 446	13 380	855	242	27 578	5 619	
15 to 19 years	131	24 590	2 069	11 601	852	230	23 981	4 123	
20 to 24 years	316	26 789	3 258	18 393	2 696	344	20 636	4 375	
25 to 34 years	465	62 264	6 406	41 232	3 878	734	50 523	9 027	
35 to 44 years	490	57 577	3 682	40 216	1 124	620	44 522	6 215	
45 to 54 years	158	39 970	2 030	20 461	325	260	30 127	2 989	
55 to 64 years	108	38 347	1 578	13 462	235	171	28 510	2 610	
65 to 74 years	59	33 466	933	11 505	103	36	23 001	1 362	
75 to 84 years	—	13 729	545	4 711	31	43	10 775	698	
85 years and over	—	4 634	138	1 195	—	11	3 359	125	
3 and 4 years	45	9 212	1 191	6 581	727	138	10 562	2 457	
16 years and over	1 716	296 694	20 095	160 671	9 066	2 366	230 324	30 670	
18 years and over	1 659	287 172	19 331	156 392	8 880	2 264	220 628	28 922	
21 years and over	1 589	271 468	18 031	147 402	7 728	2 121	207 280	26 557	
60 years and over	133	71 875	2 382	24 255	249	171	52 203	3 481	
62 years and over	82	64 437	2 083	21 632	207	157	46 386	2 880	
Median age	29.0	35.5	26.1	31.8	23.1	27.4	31.6	22.9	
FAMILY TYPE BY PRESENCE OF OWN CHILDREN									
Families	488	87 741	5 768	52 967	2 738	634	72 876	9 405	
With own children under 18 years	253	36 288	3 364	27 738	2 103	427	35 839	6 127	
Married-couple families	378	68 994	4 332	43 971	2 488	467	57 668	6 798	
With own children under 18 years	191	30 117	2 466	22 292	1 913	294	29 143	4 365	
Female householder, no husband present	93	13 378	1 025	6 100	187	151	10 271	1 894	
With own children under 18 years	62	4 793	701	3 924	133	123	4 872	1 362	
SCHOOL ENROLLMENT AND TYPE OF SCHOOL									
Persons 3 years and over enrolled in school	726	98 547	9 328	49 605	3 696	914	91 114	17 475	
Preprimary	65	6 245	653	4 360	367	41	6 283	1 390	
Elementary or high school	418	58 426	6 359	32 330	2 235	662	66 542	13 592	
College	243	33 876	2 316	12 915	1 094	211	18 289	2 493	
EDUCATIONAL ATTAINMENT									
Persons 25 years and over	1 280	249 987	15 312	132 782	5 696	1 875	190 817	23 026	
Less than 9th grade	36	32 072	1 454	5 504	60	105	29 406	2 952	
9th to 12th grade, no diploma	82	25 798	1 898	10 547	337	268	24 083	3 690	
High school graduate (includes equivalency)	384	73 057	4 529	35 095	1 987	436	63 301	8 180	
Some college, no degree	432	41 141	4 209	34 769	2 238	625	30 141	4 385	
Associate degree	63	19 104	1 183	11 777	432	166	16 977	1 893	
Bachelor's degree	137	42 970	1 525	23 218	421	183	20 892	1 443	
Graduate or professional degree	146	15 845	514	11 872	221	92	6 017	483	
Percent high school graduate or higher	90.8	76.9	78.1	87.9	93.0	80.1	72.0	71.2	
Percent bachelor's degree or higher	22.1	23.5	13.3	26.4	11.3	14.7	14.1	8.4	
LABOR FORCE STATUS									
Persons 16 years and over	1 716	296 694	20 095	160 671	9 066	2 366	230 324	30 670	
In labor force	1 377	201 344	14 760	117 445	7 709	1 712	156 859	22 020	
Civilian labor force	1 129	198 866	12 756	99 687	2 970	1 443	155 161	19 862	
Employed	1 074	193 349	12 084	95 803	2 723	1 354	148 829	18 571	
Unemployed	55	5 517	672	3 884	247	89	6 332	1 291	
Not in labor force	339	95 350	5 335	43 226	1 357	654	73 465	8 650	
Females 16 years and over	797	155 186	9 726	74 344	3 085	1 243	117 114	14 922	
In labor force	579	97 165	6 533	46 710	2 134	796	73 837	9 365	
Civilian labor force	517	96 864	6 202	45 113	1 535	754	73 651	9 153	
Employed	495	94 598	5 877	43 108	1 398	705	70 898	8 580	
Unemployed	22	2 266	325	2 005	137	49	2 753	573	
Not in labor force	218	58 021	3 193	27 634	951	447	43 277	5 557	
Persons 16 to 19 years	120	19 918	1 525	9 496	674	147	18 871	3 269	
Not enrolled in school	21	3 615	494	3 476	390	78	4 715	1 149	
Unemployed or not in labor force	8	1 300	126	769	50	23	1 782	403	
Not high school graduate	8	1 418	140	754	46	38	1 482	355	
Employed	—	689	60	371	7	15	687	129	
Unemployed	—	174	26	109	—	—	216	74	
Not in labor force	8	550	54	230	24	23	579	152	
INCOME AND POVERTY STATUS IN 1989									
Households	768	116 438	8 042	73 724	3 142	1 002	86 256	11 453	
Less than \$5,000	28	5 005	432	2 830	87	84	3 025	552	
\$5,000 to \$9,999	70	5 470	554	3 847	103	110	5 300	1 090	
\$10,000 to \$14,999	60	6 191	721	5 036	266	142	5 363	1 031	
\$15,000 to \$24,999	98	15 359	1 490	12 118	952	227	11 633	2 130	
\$25,000 to \$34,999	166	15 374	1 153	11 559	884	112	11 911	1 669	
\$35,000 to \$49,999	153	21 866	1 679	14 071	520	129	17 020	2 155	
\$50,000 to \$74,999	135	25 666	1 340	13 642	206	147	19 195	1 969	
\$75,000 to \$99,999	36	11 520	381	5 824	87	26	8 040	575	
\$100,000 or more	22	9 987	292	4 797	37	25	4 769	282	
Mean income (dollars)	40 554	50 821	39 371	46 267	30 202	29 769	45 794	35 477	
Per capita income (dollars)	14 764	16 286	11 674	16 671	9 663	10 848	12 666	8 937	

Table 17. **Selected Characteristics of Persons by Race and Hispanic Origin: 1990—Con.**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	District 1—Con.			District 2				
	Race—Con.		Hispanic origin (of any race)	Race				Hispanic origin (of any race)
	American Indian, Eskimo, or Aleut	Asian or Pacific Islander		White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	
INCOME AND POVERTY STATUS IN 1989—Con.								
All Income Levels in 1989								
Families	488	87 741	5 768	52 967	2 738	634	72 876	9 405
With related children under 18 years.....	274	42 549	3 759	29 707	2 156	452	42 359	6 827
With related children under 5 years.....	178	17 210	1 829	14 785	1 370	255	18 257	3 227
Married-couple families	378	68 994	4 332	43 971	2 488	467	57 668	6 798
With related children under 18 years.....	205	33 717	2 671	23 463	1 955	306	33 292	4 796
With related children under 5 years.....	133	13 842	1 389	12 491	1 252	185	14 327	2 466
Female householder, no husband present	93	13 378	1 025	6 100	187	151	10 271	1 894
With related children under 18 years.....	69	6 674	833	4 478	144	130	6 517	1 552
With related children under 5 years.....	45	2 527	356	1 565	88	60	2 809	593
Persons for whom poverty status is determined...	2 101	362 844	27 742	198 124	10 454	3 130	312 519	47 818
Persons under 18 years	566	81 495	9 597	51 837	4 283	1 053	94 268	20 205
Persons under 5 years	136	22 073	3 095	16 875	1 773	319	25 299	5 746
Persons 65 years and over	59	50 132	1 551	16 742	134	90	36 459	2 110
Persons 75 years and over	—	16 978	645	5 353	31	54	13 552	760
Income in 1989 Below Poverty Level								
Families	27	4 797	596	3 453	206	151	5 554	1 314
With related children under 18 years.....	20	3 448	508	2 853	194	143	4 632	1 175
With related children under 5 years.....	20	1 948	255	1 647	162	74	2 538	670
Married-couple families	18	2 413	204	1 715	151	54	2 567	413
With related children under 18 years.....	11	1 466	136	1 180	139	46	1 941	297
With related children under 5 years.....	11	865	71	835	126	32	987	216
Female householder, no husband present	9	1 953	309	1 537	45	87	2 475	829
With related children under 18 years.....	9	1 680	309	1 493	45	87	2 295	806
With related children under 5 years.....	9	945	167	732	26	32	1 331	415
Persons for whom poverty status is determined...	168	26 971	3 055	18 847	1 198	720	28 613	7 168
Persons under 18 years	73	8 646	1 327	6 547	635	335	12 681	3 969
Persons under 5 years	7	2 662	390	2 072	256	98	3 967	1 176
Persons 65 years and over	5	3 875	281	1 401	7	10	2 966	300
Persons 75 years and over	—	1 653	127	519	—	10	1 547	134

Table 18. Selected Social Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All persons			Persons 5 years and over			Persons who speak a language other than English at home			Family households				Female householder, no hus- band present		
	Total	Percent for- eign born	Native	Percent living in different house in 1985	Persons 5 to 17 years		Persons 18 years and over		Married-couple family	Percent with own children under 18 years	Percent with own children under 18 years	Total	Percent with own children under 18 years			
					Total	Percent who do not speak English "very well"	Total	Percent who do not speak English "very well"								
The State	1 108 229	14.7	945 525	65.8	1 026 209	49.1	29 600	38.0	225 124	50.3	266 439	47.7	215 835	48.4	35 368	47.8
District 1	554 174	18.1	453 761	65.8	518 329	48.6	17 436	42.3	134 618	52.7	134 465	43.9	109 120	45.3	18 187	41.2
COUNTY	554 174	18.1	453 761	65.8	518 329	48.6	17 436	42.3	134 618	52.7	134 465	43.9	109 120	45.3	18 187	41.2
Honolulu County (pt.)																
PLACE AND COUNTY SUBDIVISION																
Ewa Beach CDP	14 255	19.5	11 474	78.2	13 176	38.9	588	31.1	3 195	47.3	2 886	53.8	2 377	56.0	361	41.0
Honolulu CDP	13 408	15.3	11 363	72.2	12 435	43.7	358	19.6	2 878	49.0	3 379	40.8	2 752	41.1	494	31.6
Honolulu CDP	365 272	21.4	286 957	69.2	345 516	45.4	13 123	45.3	103 807	54.7	87 974	38.0	68 613	39.1	13 999	38.4
Millington Town CDP	29 359	8.5	26 859	64.6	26 933	49.4	607	42.7	3 429	39.5	7 747	65.0	6 877	66.1	647	57.7
Pearl City CDP	30 993	10.1	27 859	76.8	28 879	53.9	591	44.2	5 595	52.1	7 830	43.4	6 834	43.5	687	43.8
Waipahu CDP	29 967	12.7	26 150	67.6	27 897	53.9	635	22.2	4 852	46.3	7 753	47.7	6 724	47.7	702	51.7
Waipahu CDP (pt.)	6 438	19.1	5 211	81.9	5 841	48.8	315	60.3	1 827	62.5	1 503	54.9	906	51.3	438	69.9
Waipahu CDP	11 812	12.1	10 377	67.9	10 568	54.0	304	23.7	1 635	41.6	3 105	57.7	2 749	58.6	183	57.9
District 2	554 055	11.2	491 764	65.8	507 880	49.6	12 164	31.9	90 506	46.6	131 974	51.5	106 715	51.6	17 181	54.7
COUNTY	554 055	11.2	491 764	65.8	507 880	49.6	12 164	31.9	90 506	46.6	131 974	51.5	106 715	51.6	17 181	54.7
Honolulu County	120 317	8.5	110 046	71.9	111 018	46.9	1 984	31.3	17 695	44.7	30 654	50.3	23 896	48.1	4 652	64.1
Honolulu County (pt.)	282 057	10.8	251 508	61.5	256 734	51.9	6 594	31.2	44 430	43.9	65 132	53.2	53 568	54.4	7 914	50.7
Kalawao County	130	15.4	110	87.3	130	40.8	—	—	27	22.2	14	—	14	—	—	—
Kauai County	51 177	14.6	43 723	72.3	47 319	42.8	1 290	32.6	10 019	53.3	12 502	49.9	10 235	50.4	1 486	46.7
Mauai County	100 374	13.9	86 377	66.9	92 679	50.0	2 296	34.3	18 335	51.3	23 672	49.2	19 002	48.5	3 129	54.5
PLACE AND COUNTY SUBDIVISION																
Hilo CDP	37 728	5.2	35 765	84.9	35 146	41.1	467	33.2	5 924	46.0	9 778	49.0	7 424	46.1	1 793	63.4
Kahului CDP	16 889	24.1	12 818	89.5	15 651	34.1	495	34.1	5 087	58.7	3 945	44.0	3 207	43.8	514	44.0
Kailua CDP	36 818	5.5	34 798	56.0	34 376	45.3	399	34.6	3 263	36.0	9 886	42.4	8 334	43.9	1 133	33.9
Kaneohe CDP	35 448	6.1	33 298	75.1	32 866	43.4	457	35.2	4 012	40.9	9 018	45.3	7 387	46.3	1 153	42.7
Kaneohe Station CDP	11 662	5.1	11 069	8.5	10 065	98.3	167	58.1	1 094	27.8	1 976	85.1	1 924	84.7	22	100.0
Kilauea CDP	10 878	13.6	9 401	38.0	10 084	75.8	223	31.4	1 380	42.6	2 510	50.1	2 084	47.7	283	77.0
Schofield Barracks CDP	19 597	5.0	18 609	6.8	17 101	94.2	515	28.7	2 114	34.8	3 523	87.4	3 420	87.0	46	100.0
Wahiawa CDP	17 386	11.7	15 360	74.6	15 783	42.1	373	42.1	3 715	48.5	4 617	45.8	3 310	43.1	968	57.7
Wailuku CDP	10 620	9.5	9 611	80.8	9 965	39.2	232	27.6	1 961	47.3	2 515	41.6	2 020	43.0	336	42.0
Waipahu CDP (pt.)	24 997	28.6	17 853	82.7	22 944	44.6	1 272	31.2	8 675	56.8	5 174	51.5	4 015	50.7	790	60.0

Table 19. Education and Veteran Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Persons 3 years and over enrolled in school				Persons 16 to 19 years					Persons 25 years and over			Civilian veterans 16 years and over	
	Preprimary school	Elementory or high school		College	Total	Not enrolled in school and not high school graduate				Total	Percent high school graduate or higher	Percent with bachelor's degree or higher	Total	65 years and over
		Total	Percent in private school			Total	Employed	Unem- ployed	Not in labor force					
The State -----	21 276	186 653	15.8	82 649	57 184	4 267	1 981	564	1 640	709 820	80.1	22.9	119 256	24 638
District 1 -----	9 899	82 542	20.3	49 437	27 365	1 901	878	229	771	372 227	81.4	26.6	63 031	14 205
COUNTY														
Honolulu County (pt.) -----	9 899	82 542	20.3	49 437	27 365	1 901	878	229	771	372 227	81.4	26.6	63 031	14 205
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP -----	201	3 126	10.1	872	1 146	150	31	15	104	7 943	71.0	9.9	1 591	219
Halawa CDP -----	321	2 212	14.3	1 104	603	40	16	—	24	8 792	82.5	25.9	1 703	363
Honolulu CDP -----	5 605	48 356	23.9	34 202	17 070	1 313	678	186	449	259 675	79.5	27.7	41 220	11 389
Milliani Town CDP -----	883	6 562	17.5	2 621	1 801	82	22	5	55	17 461	92.5	33.0	3 919	302
Pearl City CDP -----	583	5 211	18.6	2 613	1 813	83	39	15	29	19 703	83.9	15.9	4 239	780
Waimalu CDP -----	607	4 698	23.9	2 681	1 432	85	23	5	57	19 626	88.6	31.7	4 030	495
Waipahu CDP (pt.) -----	23	1 262	7.6	435	411	33	24	—	9	3 626	62.4	6.6	577	155
Waipio CDP -----	309	1 920	20.1	879	470	8	8	—	—	7 360	91.3	31.8	1 334	59
District 2 -----	11 377	104 111	12.3	33 212	29 819	2 366	1 103	335	869	337 593	78.6	18.8	56 225	10 433
COUNTY														
Hawaii County -----	2 597	23 840	8.8	5 502	5 855	464	203	63	198	77 099	77.7	18.5	13 655	3 089
Honolulu County (pt.) -----	6 078	52 936	15.2	20 929	16 581	1 195	480	179	477	161 960	80.7	19.8	27 991	4 487
Kalawao County -----	—	—	—	6	—	—	—	—	—	130	51.5	4.6	33	—
Kauai County -----	948	9 827	9.4	2 454	2 522	175	92	33	50	33 045	73.1	16.3	4 906	919
Maui County -----	1 754	17 508	10.0	4 321	4 861	532	328	60	144	65 359	77.0	17.8	9 640	1 938
PLACE AND COUNTY SUBDIVISION														
Hilo CDP -----	803	7 457	6.1	2 618	2 186	174	47	34	93	24 181	79.2	20.9	4 437	1 065
Kahului CDP -----	249	2 886	3.7	1 116	896	103	58	9	36	10 880	66.7	13.1	1 383	322
Kailua CDP -----	749	5 987	32.3	2 831	1 883	87	59	4	24	24 284	88.6	33.5	4 919	1 113
Kaneohe CDP -----	962	5 906	25.1	2 557	1 708	80	60	—	20	23 055	83.8	24.9	4 280	752
Kaneohe Station CDP -----	498	1 671	5.9	814	685	10	—	—	—	4 115	94.7	13.3	363	—
Kihei CDP -----	181	1 651	5.7	497	474	49	42	7	—	7 290	85.6	18.0	1 151	225
Schofield Barracks CDP -----	630	3 272	4.1	1 706	1 452	62	—	7	11	7 720	94.4	14.5	797	—
Wahiawa CDP -----	252	2 927	6.4	1 185	871	69	13	17	39	10 745	74.7	11.8	2 190	435
Wailuku CDP -----	136	1 583	5.7	433	441	64	32	18	14	7 409	76.3	18.3	1 200	262
Waipahu CDP (pt.) -----	331	4 904	10.3	1 524	1 562	227	126	21	80	14 610	66.5	7.8	1 984	361

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Persons 16 years and over															
	Labor force						Worked in 1989			Females with own children under 6 years						
	Percent in labor force		Civilian labor force		Workers		Total		Worked 40 or more weeks in 1989		Total		Percent in labor force			
	Total	Female	Total	Percent un- employed	Means of transportation to work		Total	Percent using car, truck, or van	Percent in carpools	Percent using public trans- portation	Total	Usually worked 35 or more weeks per week, 50 to 52 weeks	Total	Percent in labor force	Own children under 6 years in families and subfamilies, all persons in household in labor force	
					Percent using car, truck, or van	Percent in carpools										
The State -----	855 518	421 315	70.4	63.3	548 347	3.5	567 765	81.0	20.5	7.4	639 859	512 561	380 096	68 218	63.4	57 489
District 1 -----	444 711	221 861	70.3	63.6	284 477	3.0	296 200	77.7	20.2	10.7	332 209	270 559	201 003	30 889	65.8	26 313
COUNTY	444 711	221 861	70.3	63.6	284 477	3.0	296 200	77.7	20.2	10.7	332 209	270 559	201 003	30 889	65.8	26 313
Honolulu County (pt.) -----																
PLACE AND COUNTY SUBDIVISION																
Ewa Beach CDP -----	10 499	5 132	70.5	63.5	7 129	5.0	6 826	83.2	24.5	11.9	7 745	5 989	4 324	783	65.9	807
Honolulu CDP -----	10 403	5 177	71.2	64.4	6 785	3.2	6 926	87.0	25.1	5.3	7 881	6 402	4 723	784	74.9	808
Milliam Town CDP -----	303 658	154 795	67.4	61.4	197 630	2.9	193 364	74.6	19.7	13.4	218 659	176 346	127 193	17 268	64.8	14 310
Pepee CDP -----	20 889	10 383	80.1	72.9	15 139	2.1	16 003	91.8	22.3	4.3	17 614	14 632	11 795	2 392	72.6	2 021
Waimanalo CDP -----	24 389	12 193	72.5	67.1	15 977	2.5	16 901	89.3	22.1	6.3	18 826	15 457	11 951	1 667	65.4	1 534
Waimanalo CDP (pt.) -----	23 527	11 645	80.5	74.0	17 075	2.4	18 161	87.2	23.1	6.2	19 701	17 049	13 233	1 879	72.3	1 708
Waipahu CDP -----	4 667	2 457	63.9	57.0	2 863	5.4	2 679	81.9	22.8	7.5	3 046	2 325	1 587	406	34.7	271
Waipahu CDP -----	8 738	4 293	85.0	80.3	6 601	3.0	7 079	93.7	25.8	3.1	7 651	6 762	5 531	1 080	90.7	1 289
District 2 -----	410 807	199 454	70.5	62.9	263 870	4.1	271 565	84.5	20.8	3.7	307 650	242 002	179 093	37 329	61.4	31 176
COUNTY	410 807	199 454	70.5	62.9	263 870	4.1	271 565	84.5	20.8	3.7	307 650	242 002	179 093	37 329	61.4	31 176
Hawaii County -----	88 999	44 417	64.2	58.6	56 986	4.6	53 040	88.1	19.0	1.3	62 296	47 281	34 258	7 584	60.5	6 274
Honolulu County (pt.) -----	207 209	98 484	72.8	63.5	125 546	4.5	141 318	80.4	22.6	6.3	158 235	125 586	94 802	20 372	58.9	16 281
Kalawao County -----	130	55	31.5	25.5	41	—	41	85.4	—	—	55	42	35	—	—	—
Kauai County -----	38 348	19 124	68.9	63.7	26 185	3.6	25 004	92.3	16.9	2.2	28 258	22 491	16 118	3 228	70.5	2 983
Maua County -----	76 121	37 374	72.5	66.2	55 112	2.7	52 162	88.4	19.9	.9	58 806	46 602	33 880	6 145	65.5	5 638
PLACE AND COUNTY SUBDIVISION																
Hilo CDP -----	28 495	14 704	62.9	57.5	17 827	4.3	16 775	90.8	17.9	1.0	19 340	14 739	10 824	2 204	59.8	1 767
Kailua CDP -----	12 986	6 573	61.8	61.2	8 801	2.8	8 310	94.9	23.8	1.1	9 415	7 776	5 641	885	68.9	902
Maunaloa CDP -----	29 398	14 514	71.7	64.3	19 970	2.7	19 844	84.7	23.0	5.9	22 404	17 846	13 365	2 099	74.1	1 855
Gaiole CDP -----	27 396	13 897	71.7	66.3	18 892	2.5	18 893	87.9	23.9	6.1	27 356	16 941	13 185	1 321	74.1	2 785
Gaiole CDP -----	27 396	13 897	71.7	66.3	18 892	2.5	18 893	87.9	23.9	6.1	27 356	16 941	13 185	1 321	74.1	2 785
Gaiole Station CDP -----	8 154	4 154	87.1	84.0	6 354	5.1	6 903	90.9	18.2	1.8	7 247	5 885	4 200	635	69.2	636
Chief CDP -----	13 561	4 039	81.2	74.3	6 831	3.5	6 474	90.9	19.2	1.8	7 247	5 885	4 200	635	69.2	636
Schofield Barracks CDP -----	13 326	4 039	87.0	81.0	2 519	7.3	10 290	52.5	13.3	2.2	11 751	9 488	7 637	2 071	47.2	1 971
Waipahu CDP -----	18 444	6 445	68.2	61.1	8 247	6.2	8 212	81.3	23.7	9.5	9 400	7 305	5 554	1 172	54.9	971
Waipahu CDP -----	18 444	6 445	68.2	61.1	8 247	6.2	8 212	81.3	23.7	9.5	9 400	7 305	5 554	1 172	54.9	971
Waipahu CDP (pt.) -----	18 540	9 348	68.6	64.5	12 219	5.7	11 721	84.4	25.8	11.3	12 943	10 319	7 571	1 595	70.4	1 442

Table 21. Disability Status: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Civilian noninstitutionalized persons 16 to 64 years						Civilian noninstitutionalized persons 65 years and over				Percent in labor force of civilian noninstitutional- ized persons 16 to 64 years with—			
	Total	Percent with a work disability		Percent with a mobility or self- care limitation			Total	Percent with a mobility or self-care limitation			A work disability	No work disability	A mobility limitation	No mobility limitation
		Total	Prevented from working	Total	Mobility limitation	Self-care limitation		Total	Mobility limitation	Self-care limitation				
The State -----	672 828	6.6	3.0	4.0	1.6	3.2	120 972	17.6	12.6	11.1	44.5	81.0	25.5	79.5
District 1 -----	344 367	5.7	2.5	4.1	1.5	3.3	66 856	17.4	11.8	11.6	46.3	81.5	29.2	80.2
COUNTY														
Honolulu County (pt.)-----	344 367	5.7	2.5	4.1	1.5	3.3	66 856	17.4	11.8	11.6	46.3	81.5	29.2	80.2
PLACE AND COUNTY SUBDIVISION														
Ewa Beach COP -----	9 252	8.8	5.1	5.8	3.0	4.2	969	18.3	11.7	11.5	32.9	79.4	16.5	77.1
Halawa COP -----	8 386	6.1	2.2	3.1	1.1	2.7	1 395	17.8	12.1	13.3	53.0	80.1	6.6	79.2
Honolulu COP -----	236 850	5.9	2.6	4.4	1.6	3.6	55 766	17.4	11.6	11.4	46.0	81.6	31.3	80.3
Milliani Town COP -----	18 206	4.2	1.4	2.8	1.1	2.2	1 081	15.6	14.3	11.0	57.2	83.8	36.9	83.2
Pearl City COP -----	20 016	5.9	2.6	4.8	1.9	3.7	2 688	21.9	14.1	15.3	43.8	80.4	30.1	79.2
Waimalu COP -----	19 694	4.3	1.3	2.4	.8	2.1	1 814	15.2	11.4	13.2	59.4	86.1	18.1	85.5
Waipahu COP (pt.) -----	3 863	10.6	5.1	6.3	1.6	5.5	667	16.2	13.0	10.6	49.1	74.2	—	72.6
Waipio COP -----	7 569	3.6	1.3	1.9	.5	1.4	343	16.3	16.3	8.7	59.2	87.6	—	87.0
District 2 -----	328 461	7.5	3.5	4.0	1.8	3.0	54 116	17.7	13.7	10.6	43.2	80.5	22.3	78.7
COUNTY														
Hawaii County -----	73 508	9.6	5.1	3.3	1.9	2.3	14 774	14.7	12.1	7.8	40.0	78.1	19.4	75.4
Honolulu County (pt.)-----	159 147	7.2	3.3	4.3	1.9	3.3	21 748	19.9	15.3	11.9	42.4	79.2	22.1	77.6
Kalawao County -----	75	26.7	26.7	8.0	8.0	—	35	20.0	20.0	20.0	—	61.8	—	49.3
Kouai County -----	31 174	6.7	2.9	4.5	1.7	3.7	6 496	17.7	12.5	10.9	46.6	83.6	21.3	82.1
Maui County -----	64 557	6.3	2.6	3.6	1.4	2.8	11 063	17.7	13.2	11.6	49.4	84.6	27.7	83.2
PLACE AND COUNTY SUBDIVISION														
Hilo COP -----	22 810	9.3	5.5	4.6	2.1	3.3	5 268	17.1	11.7	11.0	36.0	78.6	18.5	75.8
Kahului COP -----	10 247	7.6	3.0	5.2	2.0	4.0	2 562	24.4	17.4	15.8	50.7	84.0	29.5	82.6
Kailua COP -----	23 657	5.7	2.1	2.3	1.3	1.5	3 990	16.6	15.5	7.8	47.4	82.4	20.0	81.2
Kaneohe COP -----	22 529	5.5	2.8	3.1	1.5	2.6	3 489	19.1	13.8	12.2	41.0	84.1	23.7	82.6
Kaneohe Station COP -----	2 387	2.0	.4	2.6	.8	1.8	22	36.4	—	36.4	61.7	56.3	100.0	56.1
Kihei COP -----	7 773	6.9	1.9	2.3	1.4	1.3	769	10.7	8.6	8.3	57.6	88.8	56.0	87.1
Schofield Barracks COP -----	4 261	3.6	1.5	2.2	.8	1.9	13	—	—	—	35.5	60.0	18.2	59.4
Wahiawa COP -----	10 252	7.6	3.2	4.3	2.1	3.1	2 168	19.1	13.6	14.1	44.8	79.6	23.4	78.1
Wailuku COP -----	6 592	5.4	2.4	3.6	1.5	3.0	1 678	22.7	16.5	14.6	44.1	86.5	20.2	85.2
Waipahu COP (pt.) -----	15 371	7.9	4.7	7.0	3.0	5.8	2 634	25.1	19.0	16.7	28.6	80.8	20.0	78.5

Table 22. Income and Poverty Status in 1989: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Per capita income in 1989 (dollars)	Median income in 1989 (dollars)			Persons for whom poverty status is determined										Families with income in 1989 below poverty level	
		House- holds	Families	Non- family house- holds	Total	Income in 1989 below poverty level										Percent of all families
						All ages		Related children				Persons 65 years and over				
								Under 18 years		5 to 17 years						
						Number	Percent	Number	Percent	Number	Percent	Number	Percent			
The State -----	15 770	38 829	43 176	24 376	1 071 352	88 408	8.3	30 440	11.1	20 303	10.5	9 701	8.0	16 053	6.0	
District 1 -----	17 508	40 257	46 389	25 454	536 260	37 562	7.0	10 618	8.9	7 040	8.3	5 232	7.8	6 334	4.7	
COUNTY																
Honolulu County (pt.) -----	17 508	40 257	46 389	25 454	536 260	37 562	7.0	10 618	8.9	7 040	8.3	5 232	7.8	6 334	4.7	
PLACE AND COUNTY SUBDIVISION																
Ewa Beach CDP -----	11 114	45 184	46 953	21 917	14 210	932	6.6	316	7.4	241	7.6	40	4.1	158	5.5	
Halawa CDP -----	16 312	48 006	49 904	35 484	13 196	1 059	8.0	426	13.2	302	13.3	109	7.8	182	5.4	
Honolulu CDP -----	18 554	37 190	45 227	24 177	355 702	29 873	8.4	7 605	11.2	5 217	10.7	4 734	8.5	4 874	5.5	
Mililani Town CDP -----	17 898	55 337	56 792	39 333	29 282	507	1.7	181	1.9	133	1.9	19	1.8	106	1.4	
Pearl City CDP -----	15 580	50 752	52 879	23 008	30 876	1 087	3.5	367	5.0	185	3.5	132	4.9	190	2.4	
Waimalu CDP -----	20 426	51 985	56 359	35 870	29 712	913	3.1	319	4.6	191	3.9	30	1.7	144	1.9	
Waipahu CDP (pt.) -----	9 627	26 654	28 080	19 596	6 385	1 148	18.0	535	27.8	284	21.0	55	8.2	277	18.4	
Waipia CDP -----	18 618	51 787	53 916	39 491	11 780	182	1.5	-	-	-	-	31	9.0	24	.8	
District 2 -----	14 032	37 247	40 385	22 429	535 092	50 846	9.5	19 822	12.9	13 263	12.2	4 469	8.3	9 719	7.4	
COUNTY																
Hawaii County -----	13 169	29 712	33 186	17 375	118 344	16 776	14.2	6 673	19.8	4 622	18.8	1 383	9.4	3 351	10.9	
Honolulu County (pt.) -----	13 796	41 467	42 928	26 921	266 944	22 531	8.4	9 573	11.9	6 244	11.3	1 656	7.6	4 399	6.8	
Kalawao County -----	11 281	10 000	41 250	5 000	110	48	43.6	-	-	-	-	14	40.0	-	-	
Kauai County -----	14 254	37 425	41 099	20 867	50 460	3 640	7.2	1 128	8.1	812	8.0	591	9.1	631	5.0	
Maui County -----	15 616	38 771	42 129	25 013	99 234	7 851	7.9	2 448	9.5	1 585	8.6	825	7.5	1 338	5.7	
PLACE AND COUNTY SUBDIVISION																
Hila CDP -----	13 373	30 014	35 570	15 700	37 061	5 383	14.5	2 098	20.7	1 424	18.7	574	10.9	1 104	11.3	
Kahului CDP -----	12 717	38 305	42 205	14 219	16 566	1 056	6.4	298	7.1	156	5.2	278	10.9	190	4.8	
Kailua CDP -----	20 008	55 259	57 537	30 896	36 744	1 240	3.4	277	3.2	177	2.8	198	5.0	209	2.1	
Kaneohe CDP -----	16 479	49 770	51 116	30 291	34 651	1 690	4.9	569	6.6	413	6.8	143	4.1	262	2.9	
Kaneohe Station CDP -----	8 814	26 927	26 405	27 500	7 672	339	4.4	187	5.3	108	5.5	-	-	85	4.3	
Kihei CDP -----	18 688	40 160	43 217	28 412	10 832	785	7.2	307	12.2	197	11.4	40	5.2	156	6.2	
Schofield Barracks CDP -----	8 531	25 553	25 505	11 875	13 543	1 184	8.7	692	11.0	356	9.4	-	-	236	6.7	
Wahiawa CDP -----	13 602	33 173	36 288	15 701	17 267	2 109	12.2	956	21.0	554	18.6	192	8.9	498	10.8	
Wailuku CDP -----	16 206	38 540	46 337	21 302	10 370	582	5.6	178	7.7	102	6.0	59	3.5	103	4.1	
Waipahu CDP (pt.) -----	11 196	42 869	44 014	15 946	24 769	3 013	12.2	1 290	18.5	791	15.9	363	13.8	580	11.2	

Table 23. Selected Social and Economic Characteristics for American Indian and Alaska Native Areas: 1990

[The above table was omitted because there were no qualifying areas]

Table 24. **Structural Characteristics of Housing Units: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
UNITS IN STRUCTURE			
Owner-occupied housing units	191 894	95 257	96 637
1, detached	141 705	58 943	82 762
1, attached	11 816	6 401	5 415
2	1 678	1 092	586
3 or 4	3 184	2 225	959
5 to 9	4 298	2 833	1 465
10 to 19	3 536	2 419	1 117
20 to 49	5 613	4 432	1 181
50 or more	17 927	15 917	2 010
Mobile home or trailer	154	56	98
Other	1 983	939	1 044
Renter-occupied housing units	164 373	93 717	70 656
1, detached	50 890	16 099	34 791
1, attached	21 024	11 466	9 558
2	6 422	3 246	3 176
3 or 4	11 309	6 608	4 701
5 to 9	15 639	10 515	5 124
10 to 19	15 128	10 658	4 470
20 to 49	13 790	10 174	3 616
50 or more	27 680	23 621	4 059
Mobile home or trailer	112	12	100
Other	2 379	1 318	1 061
YEAR STRUCTURE BUILT			
All housing units	389 810	201 186	188 624
1989 to March 1990	10 218	2 973	7 245
1985 to 1988	31 692	10 908	20 784
1980 to 1984	39 178	16 510	22 668
1970 to 1979	118 872	61 894	56 978
1960 to 1969	83 455	51 124	32 331
1950 to 1959	54 048	31 398	22 650
1940 to 1949	26 229	13 967	12 262
1939 or earlier	26 118	12 412	13 706
Median	1970	1968	1972
BEDROOMS			
All housing units	389 810	201 186	188 624
No bedroom	27 589	18 864	8 725
1 bedroom	74 135	45 876	28 259
2 bedrooms	105 195	55 363	49 832
3 bedrooms	130 658	53 892	76 766
4 bedrooms	38 635	19 534	19 101
5 or more bedrooms	13 598	7 657	5 941
Owner-occupied housing units	191 894	95 257	96 637
No bedroom	3 899	2 710	1 189
1 bedroom	19 297	12 035	7 262
2 bedrooms	42 576	23 074	19 502
3 bedrooms	86 951	37 027	49 924
4 bedrooms	27 748	13 854	13 894
5 or more bedrooms	11 423	6 557	4 866
Renter-occupied housing units	164 373	93 717	70 656
No bedroom	19 443	14 153	5 290
1 bedroom	43 448	28 893	14 555
2 bedrooms	52 617	29 277	23 340
3 bedrooms	37 451	15 362	22 089
4 bedrooms	9 647	5 118	4 529
5 or more bedrooms	1 767	914	853

Table 25. **Equipment and Fuels: 1990**

[Data based on a sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text.]

State Congressional District	The State	District 1	District 2
PLUMBING FACILITIES			
All housing units	389 810	201 186	188 624
Complete plumbing facilities	385 498	199 867	185 631
Lacking complete plumbing facilities	4 312	1 319	2 993
Owner-occupied housing units	191 894	95 257	96 637
Complete plumbing facilities	190 738	95 060	95 678
Lacking complete plumbing facilities	1 156	197	959
Renter-occupied housing units	164 373	93 717	70 656
Complete plumbing facilities	162 164	92 907	69 257
Lacking complete plumbing facilities	2 209	810	1 399
SOURCE OF WATER			
All housing units	389 810	201 186	188 624
Public system or private company	380 375	200 749	179 626
Individual drilled well	755	152	603
Individual dug well	113	26	87
Some other source	8 567	259	8 308
SEWAGE DISPOSAL			
All housing units	389 810	201 186	188 624
Public sewer	312 812	197 002	115 810
Septic tank or cesspool	72 940	3 255	69 685
Other means	4 058	929	3 129
KITCHEN FACILITIES			
All housing units	389 810	201 186	188 624
Complete kitchen facilities	383 592	198 424	185 168
Lacking complete kitchen facilities	6 218	2 762	3 456
HOUSE HEATING FUEL			
Occupied housing units	356 267	188 974	167 293
Utility gas	11 723	9 460	2 263
Battled, tank, or LP gas	7 257	1 373	5 884
Electricity	135 102	77 758	57 344
Fuel oil, kerosene, etc.	607	126	481
Coal or coke	—	—	—
Wood	1 728	75	1 653
Solar energy	5 578	2 403	3 175
Other fuel	125	55	70
No fuel used	194 147	97 724	96 423
TELEPHONE IN UNIT			
Occupied housing units	356 267	188 974	167 293
Telephone in unit	346 873	185 034	161 839
No telephone in unit	9 394	3 940	5 454
VEHICLES AVAILABLE			
Owner-occupied housing units	191 894	95 257	96 637
None	9 012	5 936	3 076
1	52 017	29 050	22 967
2	78 462	36 499	41 963
3 or more	52 403	23 772	28 631
Vehicles per household	2.1	1.9	2.2
Renter-occupied housing units	164 373	93 717	70 656
None	26 147	19 087	7 060
1	76 496	44 634	31 862
2	48 549	24 228	24 321
3 or more	13 181	5 768	7 413
Vehicles per household	1.3	1.2	1.5
PLUMBING FACILITIES BY PERSONS PER ROOM			
Owner-occupied housing units	191 894	95 257	96 637
Lacking complete plumbing facilities	1 156	197	959
1.00 or less	860	167	693
1.01 or more	296	30	266
Renter-occupied housing units	164 373	93 717	70 656
Lacking complete plumbing facilities	2 209	810	1 399
1.00 or less	1 367	460	907
1.01 or more	842	350	492
HOUSEHOLDER 65 YEARS AND OVER			
Occupied housing units	74 144	41 037	33 107
Owner-occupied housing units	53 290	27 687	25 603
Lacking complete plumbing facilities	512	203	309
No telephone in unit	1 562	824	738
No vehicle available	15 656	10 927	4 729

Table 26. Occupancy, Utilization, and Financial Characteristics of Housing Units: 1990

[Data based on a sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
Occupied housing units -----	356 267	188 974	167 293
PERSONS IN UNIT			
Owner-occupied housing units -----	191 894	95 257	96 637
1 person -----	28 142	16 060	12 082
2 persons -----	57 203	28 361	28 842
3 persons -----	36 389	18 475	17 914
4 persons -----	33 071	16 377	16 694
5 persons -----	18 059	7 967	10 092
6 persons -----	9 152	3 971	5 181
7 or more persons -----	9 878	4 046	5 832
Median -----	2.79	2.67	2.91
Renter-occupied housing units -----	164 373	93 717	70 656
1 person -----	40 038	26 197	13 841
2 persons -----	45 948	28 069	17 879
3 persons -----	29 430	15 883	13 547
4 persons -----	25 603	12 864	12 739
5 persons -----	12 996	6 031	6 965
6 persons -----	5 758	2 515	3 243
7 or more persons -----	4 600	2 158	2 442
Median -----	2.42	2.24	2.77
YEAR HOUSEHOLDER MOVED INTO UNIT			
Owner-occupied housing units -----	191 894	95 257	96 637
1989 to March 1990 -----	18 553	8 668	9 885
1985 to 1988 -----	44 975	21 521	23 454
1980 to 1984 -----	25 199	11 631	13 568
1970 to 1979 -----	47 273	23 570	23 703
1960 to 1969 -----	28 681	15 003	13 678
1959 or earlier -----	27 213	14 864	12 349
Renter-occupied housing units -----	164 373	93 717	70 656
1989 to March 1990 -----	63 987	34 156	29 831
1985 to 1988 -----	60 700	35 180	25 520
1980 to 1984 -----	19 622	11 822	7 800
1970 to 1979 -----	13 276	8 611	4 665
1960 to 1969 -----	4 016	2 591	1 425
1959 or earlier -----	2 772	1 357	1 415
AGE OF HOUSEHOLDER			
Owner-occupied housing units -----	191 894	95 257	96 637
Under 25 years -----	1 142	621	521
25 to 34 years -----	20 238	9 571	10 667
35 to 44 years -----	43 231	19 803	23 428
45 to 54 years -----	37 688	19 079	18 609
55 to 64 years -----	36 305	18 496	17 809
65 to 74 years -----	34 537	18 200	16 337
75 years and over -----	18 753	9 487	9 266
Renter-occupied housing units -----	164 373	93 717	70 656
Under 25 years -----	14 186	7 675	6 511
25 to 34 years -----	52 393	28 581	23 812
35 to 44 years -----	42 966	23 369	19 597
45 to 54 years -----	19 945	11 817	8 128
55 to 64 years -----	14 029	8 925	5 104
65 to 74 years -----	12 118	8 037	4 081
75 years and over -----	8 736	5 313	3 423
CONDOMINIUM HOUSING UNITS			
Condominium housing units -----	81 127	56 236	24 891
Owner-occupied condominium housing units -----	35 078	27 485	7 593
Renter-occupied condominium housing units -----	30 450	22 337	8 113
Vacant condominium housing units -----	15 599	6 414	9 185
MEAN HOUSEHOLD INCOME IN 1989			
Owner-occupied housing units (dollars) -----	59 903	65 414	54 470
Renter-occupied housing units (dollars) -----	33 696	34 652	32 427
GROSS RENT			
Specified renter-occupied housing units -----	162 820	93 443	69 377
Less than \$100 -----	2 053	835	1 218
\$100 to \$199 -----	7 009	3 219	3 790
\$200 to \$299 -----	7 502	4 064	3 438
\$300 to \$399 -----	12 604	6 416	6 188
\$400 to \$499 -----	15 593	9 001	6 592
\$500 to \$599 -----	17 508	10 894	6 614
\$600 to \$749 -----	26 197	16 499	9 698
\$750 to \$999 -----	31 353	18 169	13 184
\$1,000 or more -----	20 923	12 019	8 904
No cash rent -----	22 078	12 327	9 751
Median (dollars) -----	650	659	633
Mean (dollars) -----	687	698	671

Table 27. Homeowner and Rental Financial Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	The State	District 1	District 2
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS			
Specified owner-occupied housing units.....	147 510	64 065	83 445
With a mortgage.....	102 601	45 243	57 358
Less than \$200.....	855	237	618
\$200 to \$299.....	3 402	1 045	2 357
\$300 to \$399.....	6 626	2 084	4 542
\$400 to \$499.....	7 214	2 404	4 810
\$500 to \$599.....	6 836	2 825	4 011
\$600 to \$799.....	13 532	4 969	8 563
\$800 to \$999.....	12 358	4 985	7 373
\$1,000 to \$1,499.....	27 309	13 156	14 153
\$1,500 to \$1,999.....	14 316	7 310	7 006
\$2,000 or more.....	10 153	6 228	3 925
Median (dollars).....	1 008	1 159	896
Mean (dollars).....	1 144	1 293	1 027
Not mortgaged.....	44 909	18 822	26 087
Less than \$100.....	5 407	666	4 741
\$100 to \$199.....	24 665	9 889	14 776
\$200 to \$299.....	10 804	5 893	4 911
\$300 to \$399.....	2 474	1 485	989
\$400 or more.....	1 559	889	670
Median (dollars).....	170	191	150
Mean (dollars).....	187	214	168
HOUSEHOLD INCOME IN 1989 BY SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989			
Specified owner-occupied housing units.....	147 510	64 065	83 445
Less than \$20,000.....	17 963	5 095	12 868
Less than 20 percent.....	8 457	2 296	6 161
20 to 24 percent.....	1 551	471	1 080
25 to 29 percent.....	1 169	274	895
30 to 34 percent.....	826	248	578
35 percent or more.....	5 393	1 623	3 770
Not computed.....	567	183	384
Median.....	20.8	21.7	20.4
\$20,000 to \$34,999.....	22 595	7 629	14 966
Less than 20 percent.....	13 259	4 496	8 763
20 to 24 percent.....	1 774	437	1 337
25 to 29 percent.....	1 533	411	1 122
30 to 34 percent.....	1 184	331	853
35 percent or more.....	4 788	1 940	2 848
Not computed.....	57	14	43
Median.....	17.0	16.9	17.0
\$35,000 to \$49,999.....	27 679	10 700	16 979
Less than 20 percent.....	15 004	5 931	9 073
20 to 24 percent.....	2 778	827	1 951
25 to 29 percent.....	2 234	766	1 468
30 to 34 percent.....	2 456	988	1 468
35 percent or more.....	5 203	2 188	3 015
Not computed.....	4	-	4
Median.....	18.4	18.0	18.7
\$50,000 or more.....	79 273	40 641	38 632
Less than 20 percent.....	51 330	25 857	25 473
20 to 24 percent.....	10 012	4 981	5 031
25 to 29 percent.....	7 961	4 209	3 752
30 to 34 percent.....	4 688	2 601	2 087
35 percent or more.....	5 242	2 981	2 261
Not computed.....	40	12	28
Median.....	15.4	15.7	15.2
HOUSEHOLD INCOME IN 1989 BY GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989			
Specified renter-occupied housing units.....	162 820	93 443	69 377
Less than \$10,000.....	22 587	12 109	10 478
Less than 20 percent.....	952	451	501
20 to 24 percent.....	1 012	554	458
25 to 29 percent.....	1 799	1 023	776
30 to 34 percent.....	1 005	551	454
35 percent or more.....	14 070	7 539	6 531
Not computed.....	3 749	1 991	1 758
Median.....	35.0+	35.0+	35.0+
\$10,000 to \$19,999.....	31 814	18 021	13 793
Less than 20 percent.....	2 014	944	1 070
20 to 24 percent.....	1 683	968	715
25 to 29 percent.....	2 684	1 493	1 191
30 to 34 percent.....	2 692	1 525	1 167
35 percent or more.....	17 248	10 162	7 086
Not computed.....	5 493	2 929	2 564
Median.....	35.0+	35.0+	35.0+
\$20,000 to \$34,999.....	47 712	27 209	20 503
Less than 20 percent.....	8 217	4 035	4 182
20 to 24 percent.....	6 085	3 427	2 658
25 to 29 percent.....	6 397	4 096	2 301
30 to 34 percent.....	5 683	3 739	1 944
35 percent or more.....	13 057	7 195	5 862
Not computed.....	8 273	4 717	3 556
Median.....	29.2	29.6	28.5
\$35,000 or more.....	60 707	36 104	24 603
Less than 20 percent.....	30 452	18 008	12 444
20 to 24 percent.....	10 606	6 327	4 279
25 to 29 percent.....	6 753	4 116	2 637
30 to 34 percent.....	3 394	2 006	1 388
35 percent or more.....	2 849	1 522	1 327
Not computed.....	6 653	4 125	2 528
Median.....	17.8	17.8	17.7

Table 28. Selected Housing Characteristics by Race and Hispanic Origin of Householder: 1990

[Data based on a sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District	Hawaii					District 1	
	Race of Householder					Race of Householder	
	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Hispanic origin (of any race)	White	Black
TENURE							
Occupied housing units	138 755	7 342	1 624	202 865	19 344	65 032	4 264
Owner-occupied housing units	60 863	831	412	128 069	7 074	24 289	415
Renter-occupied housing units	77 892	6 511	1 212	74 796	12 270	40 743	3 849
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS							
Specified owner-occupied housing units	42 661	491	263	102 668	5 854	13 334	185
With a mortgage	31 011	415	180	69 883	4 469	10 360	156
Less than \$300	879	—	—	3 316	161	237	—
\$300 to \$499	3 260	23	28	10 332	692	703	—
\$500 to \$699	3 312	17	24	9 960	645	894	—
\$700 to \$999	5 162	81	36	13 783	806	1 401	19
\$1,000 to \$1,499	8 353	140	41	18 447	1 345	2 759	73
\$1,500 or more	10 045	154	51	14 045	820	4 366	64
Not mortgaged	11 650	76	83	32 785	1 385	2 974	29
Less than \$100	1 791	12	37	3 477	246	39	12
\$100 to \$199	5 255	43	35	19 178	735	1 154	13
\$200 to \$299	2 852	13	11	7 880	306	1 002	—
\$300 to \$399	943	4	—	1 517	69	398	4
\$400 or more	809	4	—	733	29	381	—
GROSS RENT							
Specified renter-occupied housing units	77 176	6 461	1 197	74 079	12 149	40 654	3 834
Less than \$200	2 030	45	51	6 622	954	709	33
\$200 to \$299	1 719	60	22	5 518	675	694	48
\$300 to \$499	9 469	889	175	17 050	2 038	4 038	274
\$500 to \$749	17 760	1 262	336	23 347	3 577	9 787	679
\$750 to \$999	18 206	1 385	292	10 629	2 396	9 678	930
\$1,000 or more	14 817	424	164	5 255	993	8 094	313
No cash rent	13 175	2 396	157	5 658	1 516	7 654	1 557
Median (dollars)	764	706	702	554	615	783	778
SELECTED CHARACTERISTICS							
Occupied housing units	138 755	7 342	1 624	202 865	19 344	65 032	4 264
Lacking complete plumbing facilities	1 418	50	63	1 765	287	217	37
No vehicle available	12 110	676	141	21 578	2 178	8 592	433

State Congressional District	District 1—Con.			District 2				
	Race of Householder—Con.			Race of Householder				Hispanic origin (of any race)
	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	Hispanic origin (of any race)	White	Black	American Indian, Eskimo, or Aleut	Asian or Pacific Islander	
TENURE								
Occupied housing units	690	116 594	7 920	73 723	3 078	934	86 271	11 424
Owner-occupied housing units	179	69 832	2 348	36 574	416	233	58 237	4 726
Renter-occupied housing units	511	46 762	5 572	37 149	2 662	701	28 034	6 698
MORTGAGE STATUS AND SELECTED MONTHLY OWNER COSTS								
Specified owner-occupied housing units	88	50 130	1 608	29 327	306	175	52 538	4 246
With a mortgage	75	34 400	1 279	20 651	259	105	35 483	3 190
Less than \$300	—	1 042	40	642	—	—	2 274	121
\$300 to \$499	9	3 736	126	2 557	23	19	6 596	566
\$500 to \$699	—	4 255	120	2 418	17	24	5 705	525
\$700 to \$999	15	6 122	179	3 761	62	21	7 661	627
\$1,000 to \$1,499	21	10 187	488	5 594	67	20	8 260	857
\$1,500 or more	30	9 058	326	5 679	90	21	4 987	494
Not mortgaged	13	15 730	329	8 676	47	70	17 055	1 056
Less than \$100	—	606	9	1 752	—	37	2 871	237
\$100 to \$199	7	8 667	178	4 101	30	28	10 511	557
\$200 to \$299	6	4 866	120	1 850	13	5	3 014	186
\$300 to \$399	—	1 083	22	545	—	—	434	47
\$400 or more	—	508	—	428	4	—	225	29
GROSS RENT								
Specified renter-occupied housing units	511	46 622	5 550	36 522	2 627	686	27 457	6 599
Less than \$200	5	3 218	319	1 321	12	46	3 404	635
\$200 to \$299	13	3 208	342	1 025	12	9	2 310	333
\$300 to \$499	73	10 802	821	5 431	615	102	6 248	1 217
\$500 to \$749	165	16 185	1 701	7 973	583	171	7 162	1 876
\$750 to \$999	117	7 051	1 139	8 528	455	175	3 578	1 257
\$1,000 or more	61	3 430	457	6 723	111	103	1 825	536
No cash rent	77	2 728	771	5 521	839	80	2 930	745
Median (dollars)	691	573	633	742	609	713	511	599
SELECTED CHARACTERISTICS								
Occupied housing units	690	116 594	7 920	73 723	3 078	934	86 271	11 424
Lacking complete plumbing facilities	26	692	81	1 201	13	37	1 073	206
No vehicle available	94	15 528	1 313	3 518	243	47	6 050	865

Table 29. **Structural, Plumbing, and Equipment Characteristics: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All housing units	Percent								
		Year structure built		Bedrooms						
		1980 to March 1990	1939 or earlier	None or 1	4 or more	Condominium	Lacking complete plumbing facilities	With public water system or private company	With public sewer	Lacking complete kitchen facilities
The State -----	389 810	20.8	6.7	26.1	13.4	20.8	1.1	97.6	80.2	1.6
District 1 -----	201 186	15.1	6.2	32.2	13.5	28.D	.7	99.8	97.9	1.4
COUNTY										
Honolulu County (pt.) -----	201 186	15.1	6.2	32.2	13.5	28.D	.7	99.8	97.9	1.4
PLACE AND COUNTY SUBDIVISION										
Ewa Beach CDP -----	3 412	7.4	2.9	7.6	15.8	5.3	.6	99.8	63.9	.9
Halawa CDP -----	4 094	24.3	.9	17.9	19.3	16.7	—	100.0	99.2	.8
Honolulu CDP -----	145 796	10.9	7.6	39.7	11.4	31.6	.8	99.8	98.4	1.7
Mililani Town CDP -----	8 900	33.6	.1	7.1	24.7	17.5	.1	99.8	99.8	.2
Pearl City CDP -----	8 999	12.6	.9	10.3	19.5	4.9	.3	99.9	98.8	.9
Waimalu CDP -----	10 613	31.4	.4	18.9	12.9	45.9	.2	99.8	99.6	.3
Waipahu CDP (pt.) -----	1 781	9.3	2.2	27.3	7.1	1.9	1.0	100.0	98.7	.4
Waipia CDP -----	4 087	77.1	—	18.2	6.7	29.5	.4	100.0	99.2	.2
District 2 -----	188 624	26.9	7.3	19.6	13.3	13.2	1.6	95.2	61.4	1.8
COUNTY										
Hawaii County -----	48 253	35.1	10.8	19.5	10.5	8.1	3.6	84.6	27.8	3.4
Honolulu County (pt.) -----	80 497	17.8	4.8	15.5	17.8	12.5	.6	99.7	82.7	1.1
Kalawao County -----	101	—	76.2	82.2	—	—	—	100.0	—	5.9
Kauai County -----	17 613	32.3	10.2	15.7	10.2	5.1	1.3	97.3	30.9	1.8
Maui County -----	42 160	32.5	6.5	29.2	9.2	23.8	1.2	98.0	72.2	1.4
PLACE AND COUNTY SUBDIVISION										
Hilo CDP -----	14 135	17.6	9.9	20.3	12.5	7.9	.4	99.2	37.3	1.8
Kohului CDP -----	5 136	21.5	1.3	20.5	9.4	7.1	.3	99.9	98.8	.9
Kailua CDP -----	12 225	12.5	3.0	12.2	25.8	11.7	.1	100.0	98.0	1.5
Koneoe CDP -----	10 849	19.6	1.8	11.1	16.4	18.6	.2	100.0	97.6	1.2
Koneoe Station CDP -----	2 030	8.0	1.5	2.1	19.2	—	.4	100.0	99.0	—
Kihei CDP -----	6 395	42.4	.5	39.2	5.6	46.9	—	99.8	97.8	.9
Schafeld Barracks CDP -----	3 556	5.9	13.9	4.0	18.3	3.7	.6	100.0	97.3	.6
Wahiawa CDP -----	5 765	12.8	9.9	23.2	14.5	6.0	.7	100.0	98.6	1.0
Wailuku CDP -----	3 837	19.4	16.3	27.9	14.8	9.6	1.0	100.0	92.6	1.1
Waipahu CDP (pt.) -----	5 958	18.4	2.0	12.6	20.1	10.0	.3	100.0	98.3	.3

Table 30. **Fuels and Equipment Characteristics: 1990**

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All occupied housing units	Percent with—								No telephone in unit
		House heating fuel					Vehicles available			
		Utility gas	Bottled, tank, or LP gas	Electricity	Fuel oil, kero- sene, etc.	Other or none	None	1	2 or more	
The State -----	356 267	3.3	2.0	37.9	.2	56.6	9.9	36.1	54.1	2.6
District 1 -----	188 974	5.0	.7	41.1	.1	53.1	13.2	39.0	47.8	2.1
COUNTY										
Honolulu County (pt.) -----	188 974	5.0	.7	41.1	.1	53.1	13.2	39.0	47.8	2.1
PLACE AND COUNTY SUBDIVISION										
Ewa Beach CDP -----	3 341	.1	.6	46.8	—	52.5	3.6	25.5	70.9	1.0
Halawa CDP -----	4 020	6.5	1.3	41.2	—	51.0	6.6	29.1	64.3	1.2
Honolulu CDP -----	134 563	5.5	.7	41.6	.1	52.1	17.2	42.4	40.3	2.6
Mililani Town CDP -----	8 776	.4	—	43.4	—	56.1	1.4	20.5	78.1	.6
Pearl City CDP -----	8 876	.1	.5	43.2	—	56.3	3.5	24.9	71.6	.7
Waimalu CDP -----	10 372	2.2	.5	43.9	—	53.5	3.8	33.8	62.4	.8
Waipohu CDP (pt.) -----	1 768	5.3	2.7	61.3	—	30.7	14.4	37.2	48.4	3.3
Waipio CDP -----	4 032	18.4	1.3	22.9	—	57.4	1.2	33.2	65.6	.3
District 2 -----	167 293	1.4	3.5	34.3	.3	60.6	6.1	32.8	61.2	3.3
COUNTY										
Hawaii County -----	41 461	1.5	5.3	24.5	.7	68.1	7.5	35.4	57.1	5.5
Honolulu County (pt.) -----	76 330	1.5	1.1	40.7	—	56.7	5.7	32.6	61.7	2.1
Kalawao County -----	62	—	—	100.0	—	—	41.9	9.7	48.4	9.7
Kouai County -----	16 295	1.7	9.0	27.5	.3	61.5	4.8	28.1	67.2	3.0
Maui County -----	33 145	.8	4.2	34.9	.4	59.7	5.6	32.3	62.1	3.2
PLACE AND COUNTY SUBDIVISION										
Hilo CDP -----	13 327	3.5	3.8	37.2	.5	55.1	10.2	36.2	53.5	4.0
Kohului CDP -----	5 017	1.9	3.1	50.6	—	44.4	8.5	28.1	63.4	1.3
Kailua CDP -----	11 843	2.4	.3	29.1	—	68.2	3.2	27.1	69.7	.9
Kaneohe CDP -----	10 610	2.0	1.2	36.6	—	60.2	4.4	28.2	67.5	.5
Kaneohe Station CDP -----	2 014	1.1	—	31.5	—	67.4	.9	58.6	40.5	1.1
Kihei CDP -----	4 009	.6	1.2	21.2	—	76.9	3.4	35.0	61.5	1.8
Schofield Barracks CDP -----	3 504	3.4	.3	35.8	.1	60.4	1.1	57.4	41.4	.7
Wahiawa CDP -----	5 619	1.7	1.6	58.4	.1	38.2	13.8	36.0	50.2	3.5
Wailuku CDP -----	3 661	1.0	5.0	39.8	—	54.1	5.5	38.4	56.1	3.5
Waipohu CDP (pt.) -----	5 799	1.3	.7	63.3	—	34.7	9.3	29.3	61.4	4.1

Table 31. Homeowner and Renter Characteristics: 1990

[Data based on sample and subject to sampling variability, see text. For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	All owner-occupied housing units			Specified owner-occupied housing units						All renter-occupied housing units				
	Total	Percent with house- holder moved into unit —		With a mortgage			Not mortgaged			Total	Percent with house- holder moved into unit —		Specified renter paying cash rent	
		1989 to March 1990	1969 or earlier	Total	Medion selected monthly owner costs (dollars)	Medion selected monthly owner costs as o percentage of household income in 1989	Total	Medion selected monthly owner costs (dollars)	Medion selected monthly owner costs as o percentage of household income in 1989		1989 to March 1990	1969 or earlier	Medion gross rent (dollars)	Medion gross rent as a per- centage of household income in 1989
The State -----	191 894	9.7	29.1	102 601	1 008	21.4	44 909	170	10.8	164 373	38.9	4.1	650	27.4
District 1 -----	95 257	9.1	31.4	45 243	1 159	21.1	18 822	191	10.7	93 717	36.4	4.2	659	27.4
COUNTY														
Honolulu County (pt.) -----	95 257	9.1	31.4	45 243	1 159	21.1	18 822	191	10.7	93 717	36.4	4.2	659	27.4
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP -----	2 311	5.1	16.4	1 759	910	19.9	206	149	12.8	1 030	34.1	.5	755	28.0
Halawa CDP -----	2 779	9.3	34.7	1 878	1 076	21.2	333	188	10.2	1 241	40.3	2.4	756	27.9
Honolulu CDP -----	63 235	7.8	36.3	23 658	1 190	20.1	15 219	196	10.8	71 328	33.1	5.2	623	26.9
Mililani Town CDP -----	6 820	15.1	3.3	5 479	1 293	25.3	188	180	10.4	1 956	56.3	.4	1 000+	30.8
Pearl City CDP -----	6 017	2.9	49.2	4 446	793	15.0	1 200	168	10.1	2 859	44.0	.7	753	30.3
Waimalu CDP -----	6 662	13.6	6.5	3 649	1 290	23.8	421	170	10.9	3 710	56.5	1.3	882	29.4
Waiipahu CDP (pt.) -----	558	3.0	65.8	271	754	18.3	252	161	11.3	1 210	29.6	1.2	569	28.4
Waiolo CDP -----	2 846	12.6	5.0	1 777	1 348	25.1	77	217	10.0	1 186	72.9	—	897	31.6
District 2 -----	96 637	10.2	26.9	57 358	896	21.6	26 087	150	10.9	70 656	42.2	4.0	633	27.3
COUNTY														
Hawaii County -----	25 336	11.1	24.0	12 968	669	20.5	9 280	130	10.9	16 125	42.2	4.5	490	27.0
Honolulu County (pt.) -----	42 636	9.6	29.3	28 729	1 062	22.0	8 109	170	10.7	33 694	42.6	3.3	677	28.2
Kalawao County -----	—	—	—	—	—	—	—	—	—	62	29.0	40.3	125	10.0
Kauai County -----	9 582	9.6	27.8	5 246	828	21.2	3 313	152	10.9	6 713	34.9	6.9	618	24.1
Mouli County -----	19 083	10.9	25.2	10 415	933	22.3	5 385	160	11.1	14 062	44.8	3.6	722	27.1
PLACE AND COUNTY SUBDIVISION														
Hilo CDP -----	8 036	5.7	35.2	4 525	693	17.8	2 782	136	10.7	5 291	37.4	4.8	417	27.5
Kohului CDP -----	2 974	2.0	45.1	1 585	782	16.8	1 136	158	11.5	2 043	30.3	4.9	582	24.8
Kailua CDP -----	8 294	8.9	31.2	5 648	1 245	22.6	1 668	197	10.6	3 549	51.6	1.7	883	31.0
Konehe CDP -----	7 452	8.7	36.0	4 823	1 032	21.0	1 300	180	10.6	3 158	42.8	2.9	845	30.2
Konehe Station CDP -----	—	—	—	—	—	—	—	—	—	2 014	47.6	—	492	25.8
Kihei CDP -----	1 961	21.4	4.3	1 055	1 295	27.6	184	216	12.9	2 048	63.5	.2	863	30.6
Schofield Barracks CDP -----	17	41.2	—	—	—	—	—	—	—	3 487	50.3	—	403	21.6
Wahiawa CDP -----	2 657	6.0	55.4	1 346	976	19.8	1 070	146	10.9	2 962	37.4	4.4	560	29.5
Wailuku CDP -----	2 007	5.5	52.8	798	957	17.1	928	152	10.4	1 654	26.9	7.4	556	23.7
Waiipahu CDP (pt.) -----	3 326	6.8	39.0	2 378	921	18.6	530	164	10.4	2 473	40.9	1.7	657	28.3

Table 32. **Selected Housing Characteristics for American Indian and Alaska Native Areas: 1990**

[The above table was omitted because there were no qualifying areas]

Table 33. Percent in Sample, Standard Error, and Confidence Bounds for Population Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Persons		Per capita income in 1989 (dollars) — Standard error	Median income in 1989 (dollars)					
	10D-percent count	Percent in sample		Household		Family		Nonfamily household	
				90-percent confidence bounds		90-percent confidence bounds		9D-percent confidence bounds	
				Lower	Upper	Lower	Upper	Lower	Upper
The State -----	1 108 229	14.1	52	38 545	39 113	42 852	43 499	24 001	24 750
District 1 -----	554 119	14.0	81	39 933	40 567	45 954	46 824	25 D47	25 862
COUNTY									
Honolulu County (pt.) -----	554 119	14.0	81	39 933	40 567	45 954	46 824	25 047	25 862
PLACE AND COUNTY SUBDIVISION									
Ewa Beach CDP -----	14 315	13.6	291	42 747	48 552	44 161	50 367	16 997	26 137
Halawa CDP -----	13 408	15.8	415	46 216	50 251	47 548	51 926	32 064	39 464
Honolulu CDP -----	365 272	13.9	110	36 826	37 575	44 649	45 786	23 671	24 684
Mililani Town CDP -----	29 359	14.4	244	54 D27	56 465	55 617	58 D48	36 842	41 522
Pearl City CDP -----	30 993	14.9	256	49 D75	52 328	51 337	54 541	19 594	25 421
Waimalu CDP -----	29 967	13.5	337	50 769	53 281	54 863	57 956	34 036	37 606
Waipahu CDP (pt.) -----	6 378	12.7	608	24 774	30 108	24 891	33 195	16 716	23 244
Waipia CDP -----	11 812	11.5	434	50 438	53 277	52 289	55 785	35 999	43 161
District 2 -----	554 110	14.1	67	36 938	37 575	40 D26	40 745	21 983	23 039
COUNTY									
Hawaii County -----	120 317	14.2	141	29 D17	30 307	32 433	33 957	16 585	18 424
Honolulu County (pt.) -----	282 112	14.3	89	40 936	41 998	42 293	43 599	25 949	28 010
Kalawao County -----	130	14.6	3 140	3 280	20 940	—	75 000	2 344	12 813
Kauai County -----	51 177	13.9	224	36 388	38 800	40 140	42 D58	19 556	21 931
Maui County -----	100 374	13.6	168	38 D25	39 517	41 314	43 155	23 878	25 909
PLACE AND COUNTY SUBDIVISION									
Hilo CDP -----	37 808	15.5	240	28 885	31 063	34 362	36 672	14 335	16 962
Kahului CDP -----	16 889	15.9	322	36 755	39 827	40 406	44 714	11 843	16 215
Kailua CDP -----	36 818	15.7	298	53 560	56 708	56 028	59 147	28 442	33 501
Kaneohe CDP -----	35 448	15.1	242	48 345	51 016	49 827	52 469	27 295	32 006
Kaneohe Station CDP -----	11 662	11.7	168	25 518	28 178	24 903	27 815	—	30 000
Kihei CDP -----	11 107	10.4	538	37 308	42 256	40 575	45 784	25 410	33 456
Schafield Barracks CDP -----	19 597	14.9	139	24 331	26 680	24 307	26 628	10 369	29 263
Wahiawa CDP -----	17 386	13.9	383	31 467	35 322	34 450	38 025	13 749	18 230
Wailuku CDP -----	10 688	13.6	550	36 242	41 283	43 007	49 303	20 D84	22 604
Waipahu CDP (pt.) -----	25 057	13.6	275	40 758	45 282	42 044	46 135	13 910	19 376

Table 34. Percent in Sample and Confidence Bounds for Housing Characteristics: 1990

[For definitions of terms and meanings of symbols, see text]

State Congressional District County Place and [In Selected States] County Subdivision [10,000 or More Persons]	Housing units		Median selected monthly owner costs (dollars)				Median selected monthly owner costs as a percent- age of household income in 1989				Median gross rent (dollars)		Median gross rent as a percentage of household income in 1989	
	100-percent count	Percent in sample	With a mortgage		Not mortgaged		With a mortgage		Not mortgaged		90-percent confidence bounds		90-percent confidence bounds	
			90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		90-percent confidence bounds		Lower	Upper	Lower	Upper
			Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper				
The State -----	389 810	13.9	997	1 020	168	172	21.2	21.6	10.6	11.0	645	654	27.1	27.6
District 1 -----	201 204	13.8	1 142	1 176	188	193	20.8	21.5	10.4	11.1	654	664	27.1	27.7
COUNTY														
Honolulu County (pt.) -----	201 204	13.8	1 142	1 176	188	193	20.8	21.5	10.4	11.1	654	664	27.1	27.7
PLACE AND COUNTY SUBDIVISION														
Ewa Beach CDP -----	3 426	13.1	850	959	134	169	17.9	21.7	9.0	16.6	720	799	25.5	30.5
Halawa CDP -----	4 094	16.1	1 016	1 135	176	199	19.4	23.0	8.1	12.3	583	815	25.7	30.1
Hanalei CDP -----	145 796	13.7	1 162	1 219	194	199	19.6	20.6	10.4	11.2	617	629	26.6	27.2
Milliani Town CDP -----	8 900	14.4	1 264	1 322	163	198	24.5	26.1	7.4	13.4	995	1 158	29.4	32.6
Pearl City CDP -----	8 999	14.8	759	834	162	174	14.1	15.9	9.0	11.3	727	784	29.0	32.0
Waimalu CDP -----	10 613	13.2	1 238	1 344	155	185	22.7	24.8	8.6	13.1	863	900	28.1	31.1
Waipahu CDP (pt.) -----	1 762	13.2	575	971	138	182	13.6	23.5	8.3	14.3	552	585	25.8	31.1
Waipio CDP -----	4 087	11.7	1 306	1 391	169	319	24.0	26.7	4.8	15.2	872	923	29.0	34.9
District 2 -----	188 606	14.0	884	910	148	153	21.4	21.9	10.6	11.2	625	641	26.9	27.7
COUNTY														
Hawaii County -----	48 253	14.2	652	686	127	133	19.8	21.0	10.4	11.3	480	501	26.2	27.8
Honolulu County (pt.) -----	80 479	14.2	1 041	1 083	166	174	21.6	22.4	10.3	11.2	667	687	27.7	28.8
Kalawao County -----	101	16.8	—	—	—	—	—	—	—	—	—	200	—	20.0
Kauai County -----	17 613	14.0	796	859	146	159	20.3	22.0	10.2	11.7	589	655	23.2	25.1
Maui County -----	42 160	13.4	902	964	155	166	21.6	23.0	10.4	11.7	706	737	26.3	27.8
PLACE AND COUNTY SUBDIVISION														
Hilo CDP -----	14 134	15.2	666	717	131	141	16.7	18.8	9.9	11.5	403	432	26.2	28.7
Kahului CDP -----	5 136	15.4	742	832	149	167	15.2	18.4	10.2	12.8	558	609	23.4	26.1
Kailua CDP -----	12 225	15.6	1 199	1 296	189	207	21.8	23.5	9.6	11.6	853	914	29.5	32.7
Konahe CDP -----	10 849	15.3	994	1 071	173	187	20.1	21.8	9.4	11.7	815	874	28.7	32.2
Konahe Station CDP -----	2 030	11.3	—	—	—	—	—	—	—	—	459	704	22.3	30.9
Kihei CDP -----	6 497	11.3	1 205	1 378	190	240	25.6	29.5	8.5	17.2	825	902	28.3	33.1
Schaffield Barracks CDP -----	3 556	14.8	—	—	—	—	—	—	—	—	395	415	19.2	24.3
Wahiawa CDP -----	5 765	14.1	919	1 065	139	154	17.6	21.7	9.5	12.2	537	581	27.7	31.7
Wailuku CDP -----	3 848	13.8	856	1 050	140	165	14.6	19.5	9.0	11.8	518	595	22.2	25.2
Waipahu CDP (pt.) -----	5 977	13.1	846	995	152	176	17.0	20.3	8.5	12.3	637	676	26.3	30.4

Table 35. **Percent in Sample, Standard Error, and Confidence Bounds for American Indian and Alaska Native Areas:
1990**

[The above table was omitted because there were no qualifying areas]

APPENDIX A.

Area Classifications

CONTENTS

Alaska Native Regional Corporation (ANRC) (See American Indian and Alaska Native Area)	
Alaska Native Village (ANV) (See American Indian and Alaska Native Area)	
Alaska Native Village Statistical Area (See American Indian and Alaska Native Area)	
American Indian and Alaska Native Area	A-1
American Indian Reservation (See American Indian and Alaska Native Area, see County Subdivision)	
American Indian Reservation and Trust Land (See American Indian and Alaska Native Area)	
American Samoa (See Outlying Areas of the United States, see State)	
Area Measurement	A-3
Assessment District (See County Subdivision)	
Block	A-3
Block Group (BG)	A-4
Block Numbering Area (BNA) (See Census Tract and Block Numbering Area)	
Borough (See County Subdivision, see Place)	
Borough and Census Area (Alaska) (See County)	
Boundary Changes	A-4
Census Area (Alaska) (See County)	
Census Block (See Block)	
Census Code (See Geographic Code)	
Census County Division (CCD) (See County Subdivision)	
Census Designated Place (CDP) (See Place)	
Census Division (See Census Region and Census Division)	
Census Geographic Code (See Geographic Code)	
Census Region and Census Division	A-4
Census Subarea (Alaska) (See County Subdivision)	
Census Tract and Block Numbering Area	A-5
Central City (See Metropolitan Area)	
Central Place (See Urbanized Area)	
City (See Place)	
Congressional District (CD)	A-6
Consolidated City (See Place)	
Consolidated Metropolitan Statistical Area (CMSA) (See Metropolitan Area)	
County	A-6
County Subdivision	A-6
Crews of Vessels (See Area Measurement, see Block, see Census Tract and Block Numbering Area)	
Division (See Census Region and Division, see County Subdivision)	
Election District (See County Subdivision, see Voting District)	
Extended City (See Urban and Rural)	
Farm (See Urban and Rural)	
Federal Information Processing Standards (FIPS) Code (See Geographic Code)	
Geographic Block Group (See Block Group)	
Geographic Code	A-7
Geographic Presentation	A-7
Gore (See County Subdivision)	
Grant (See County Subdivision)	
Guam (See Outlying Areas of the United States, see State)	
Hierarchical Presentation (See Geographic Presentation)	
Historic Areas of Oklahoma (See American Indian and Alaska Native Area, Tribal Jurisdiction Statistical Area)	
Historical Counts	A-8
Incorporated Place (See Place)	
Independent City (See County)	
Internal Point	A-8
Inventory Presentation (See Geographic Presentation)	
Land Area (See Area Measurement)	

Latitude (See Internal Point)	
Longitude (See Internal Point)	
Magisterial District (See County Subdivision)	
Metropolitan Area (MA)	A-8
Metropolitan Statistical Area (MSA) (See Metropolitan Area)	
Minor Civil Division (MCD) (See County Subdivision)	
Northern Mariana Islands (See Outlying Areas of the United States, see State)	
Outlying Areas of the United States	A-9
Palau (See Outlying Areas of the United States, see State)	
Parish (Louisiana) (See County)	
Parish Governing Authority District (See County Subdivision)	
Place	A-9
Plantation (See County Subdivision)	
Population or Housing Unit Density	A-10
Precinct (See County Subdivision, see Voting District)	
Primary Metropolitan Statistical Area (PMSA) (See Metropolitan Area)	
Puerto Rico (See Outlying Areas of the United States, see State)	
Purchase (See County Subdivision)	
Region (See Census Region and Census Division)	
Rural (See Urban and Rural)	
Selected States (See County Subdivision, see State)	
State	A-11
Supervisors' District (See County Subdivision)	
Tabulation Block Group (See Block Group)	
TIGER	A-11
Town (See County Subdivision, see Place)	
Township (See County Subdivision)	
Tract (See Census Tract and Block Numbering Area)	
Tribal Designated Statistical Area (TDSA) (See American Indian and Alaska Native Area)	
Tribal Jurisdiction Statistical Area (TJSA) (See American Indian and Alaska Native Area)	
Trust Land (See American Indian and Alaska Native Area)	
United States	A-11
Unorganized Territory (unorg.) (See County Subdivision)	
Urban and Rural	A-11
Urbanized Area (UA)	A-12
Village (See Place)	
Virgin Islands (See Outlying Areas of the United States, see State)	
Voting District (VTD)	A-12
Water Area (See Area Measurement)	
ZIP Code®	A-13

These definitions are for all geographic entities and concepts that the Census Bureau will include in its standard 1990 census data products. Not all entities and concepts are shown in any one 1990 census data product. For a description of geographic areas included in each data product, see appendix F.

AMERICAN INDIAN AND ALASKA NATIVE AREA

Alaska Native Regional Corporation (ANRC)

Alaska Native Regional Corporations (ANRC's) are corporate entities established under the Alaska Native Claims Settlement Act of 1972, Public Law 92-203, as amended by Public Law 94-204, to conduct both business and nonprofit affairs of Alaska Natives. Alaska is divided into

12 ANRC's that cover the entire State, except for the Annette Islands Reserve. The boundaries of the 12 ANRC's were established by the Department of the Interior, in cooperation with Alaska Natives. Each ANRC was designed to include, as far as practicable, Alaska Natives with a common heritage and common interests. The ANRC boundaries for the 1990 census were identified by the Bureau of Land Management. A 13th region was established for Alaska Natives who are not permanent residents and who chose not to enroll in one of the 12 ANRC's; no census products are prepared for the 13th region. ANRC's were first identified for the 1980 census.

Each ANRC is assigned a two-digit census code ranging from 07 through 84. These census codes are assigned in alphabetical order of the ANRC's.

Alaska Native Village (ANV) Statistical Area

Alaska Native villages (ANV's) constitute tribes, bands, clans, groups, villages, communities, or associations in Alaska that are recognized pursuant to the Alaska Native Claims Settlement Act of 1972, Public Law 92-203. Because ANV's do not have legally designated boundaries, the Census Bureau has established Alaska Native village statistical areas (ANVSA's) for statistical purposes. For the 1990 census, the Census Bureau cooperated with officials of the nonprofit corporation within each participating Alaska Native Regional Corporation (ANRC), as well as other knowledgeable officials, to delineate boundaries that encompass the settled area associated with each ANV. ANVSA's are located within ANRC's and do not cross ANRC boundaries. ANVSA's for the 1990 census replace the ANV's that the Census Bureau recognized for the 1980 census.

Each ANVSA is assigned a four-digit census code ranging from 6001 through 8989. Each ANVSA also is assigned a five-digit FIPS code. Both the census and FIPS codes are assigned in alphabetical order of ANVSA's.

American Indian Reservation and Trust Land

American Indian Reservation—Federal American Indian reservations are areas with boundaries established by treaty, statute, and/or executive or court order, and recognized by the Federal Government as territory in which American Indian tribes have jurisdiction. State reservations are lands held in trust by State governments for the use and benefit of a given tribe. The reservations and their boundaries were identified for the 1990 census by the Bureau of Indian Affairs (BIA), Department of Interior (for Federal reservations), and State governments (for State reservations). The names of American Indian reservations recognized by State governments, but not by the Federal Government, are followed by "(State)." Areas composed of reservation lands that are administered jointly and/or are claimed by two reservations, as identified by the BIA, are called "joint areas," and are treated as separate American Indian reservations for census purposes.

Federal reservations may cross State boundaries, and Federal and State reservations may cross county, county subdivision, and place boundaries. For reservations that cross State boundaries, only the portion of the reservations in a given State are shown in the data products for that State; the entire reservations are shown in data products for the United States.

Each American Indian reservation is assigned a four-digit census code ranging from 0001 through 4989. These census codes are assigned in alphabetical order of American Indian reservations nationwide, except that joint areas appear at the end of the code range. Each American Indian reservation also is assigned a five-digit FIPS code; because the FIPS codes are assigned in alphabetical sequence of American Indian reservations within each State, the FIPS code is different in each State for reservations in more than one State.

Trust Land—Trust lands are property associated with a particular American Indian reservation or tribe, held in trust by the Federal Government. Trust lands may be held in trust either for a tribe (tribal trust land) or for an individual member of a tribe (individual trust land). Trust lands recognized for the 1990 census comprise all tribal trust lands and inhabited individual trust lands located outside of a reservation boundary. As with other American Indian areas, trust lands may be located in more than one State. Only the trust lands in a given State are shown in the data products for that State; all trust lands associated with a reservation or tribe are shown in data products for the United States. The Census Bureau first reported data for tribal trust lands for the 1980 census.

Trust lands are assigned a four-digit census code and a five-digit FIPS code, the same as that for the reservation with which they are associated. Trust lands not associated with a reservation are presented by tribal name, interspersed alphabetically among the reservations.

Tribal Designated Statistical Area (TDSA)

Tribal designated statistical areas (TDSA's) are areas, delineated outside Oklahoma by federally- and State-recognized tribes without a land base or associated trust lands, to provide statistical areas for which the Census Bureau tabulates data. TDSA's represent areas generally containing the American Indian population over which federally-recognized tribes have jurisdiction and areas in which State tribes provide benefits and services to their members. The names of TDSA's delineated by State-recognized tribes are followed by "(State)." The Census Bureau did not recognize TDSA's before the 1990 census.

Each TDSA is assigned a four-digit census code ranging from 9001 through 9589. The census codes are assigned in alphabetical order of TDSA's nationwide. Each TDSA also is assigned a five-digit FIPS code in alphabetical order within State.

Tribal Jurisdiction Statistical Area (TJSA)

Tribal jurisdiction statistical areas (TJSA's) are areas, delineated by federally-recognized tribes in Oklahoma without a reservation, for which the Census Bureau tabulates data. TJSA's represent areas generally containing the American Indian population over which one or more tribal governments have jurisdiction; if tribal officials delineated adjacent TJSA's so that they include some duplicate territory, the overlap area is called a "joint use area," which is treated as a separate TJSA for census purposes.

TJSA's replace the "Historic Areas of Oklahoma (excluding urbanized areas)" shown in 1980 census data products. The Historic Areas of Oklahoma comprised the territory located within reservations that had legally established boundaries from 1900 to 1907; these reservations were dissolved during the 2- to 3-year period preceding the statehood of Oklahoma in 1907. The Historic Areas of Oklahoma (excluding urbanized areas) were identified only for the 1980 census.

Each TJSA is assigned a four-digit census code ranging from 5001 through 5989. The census codes are assigned in alphabetical order of TJSA's, except that joint areas appear at the end of the code range. Each TJSA also is assigned a five-digit FIPS code in alphabetical order within Oklahoma.

AREA MEASUREMENT

Area measurements provide the size, in square kilometers (also in square miles in printed reports), recorded for each geographic entity for which the Census Bureau tabulates data in general-purpose data products (except crews-of-vessels entities and ZIP Codes). (Square kilometers may be divided by 2.59 to convert an area measurement to square miles.) Area was calculated from the specific set of boundaries recorded for the entity in the Census Bureau's geographic data base (see "TIGER"). On machine-readable files, area measurements are shown to three decimal places; the decimal point is implied. In printed reports and listings, area measurements are shown to one decimal.

The Census Bureau provides measurements for both land area and total water area for the 1990 census; the water figure includes inland, coastal, Great Lakes, and territorial water. (For the 1980 census, the Census Bureau provided area measurements for land and inland water.) The Census Bureau will provide measurements for the component types of water for the affected entities in a separate file. "Inland water" consists of any lake, reservoir, pond, or similar body of water that is recorded in the Census Bureau's geographic data base. It also includes any river, creek, canal, stream, or similar feature that is recorded in that data base as a two-dimensional feature (rather than as a single line). The portions of the oceans and related large embayments (such as the Chesapeake Bay and Puget Sound), the Gulf of Mexico, and the Caribbean Sea that belong to the United States and its territories are considered to be "coastal" and "territorial"

waters; the Great Lakes are treated as a separate water entity. Rivers and bays that empty into these bodies of water are treated as "inland water" from the point beyond which they are narrower than one nautical mile across. Identification of land and inland, coastal, and territorial waters is for statistical purposes, and does not necessarily reflect legal definitions thereof.

By definition, census blocks do not include water within their boundaries; therefore, the water area of a block is always zero. Land area measurements may disagree with the information displayed on census maps and in the TIGER file because, for area measurement purposes, features identified as "intermittent water" and "glacier" are reported as land area. For this reason, it may not be possible to derive the land area for an entity by summing the land area of its component census blocks. In addition, the water area measurement reported for some geographic entities includes water that is not included in any lower-level geographic entity. Therefore, because water is contained only in a higher-level geographic entity, summing the water measurements for all the component lower-level geographic entities will not yield the water area of that higher-level entity. This occurs, for example, where water is associated with a county but is not within the legal boundary of any minor civil division, or the water is associated with a State but is not within the legal boundary of any county. Crews-of-vessels entities (see "Census Tract and Block Numbering Area" and "Block") do not encompass territory and therefore have no area measurements. ZIP Codes do not have specific boundaries, and therefore, also do not have area measurements.

The accuracy of any area measurement figure is limited by the inaccuracy inherent in (1) the location and shape of the various boundary features in the data base, and (2) rounding affecting the last digit in all operations that compute and/or sum the area measurements.

BLOCK

Census blocks are small areas bounded on all sides by visible features such as streets, roads, streams, and railroad tracks, and by invisible boundaries such as city, town, township, and county limits, property lines, and short, imaginary extensions of streets and roads.

Tabulation blocks, used in census data products, are in most cases the same as collection blocks, used in the census enumeration. In some cases, collection blocks have been "split" into two or more parts required for data tabulations. Tabulation blocks do not cross the boundaries of counties, county subdivisions, places, census tracts or block numbering areas, American Indian and Alaska Native areas, congressional districts, voting districts, urban or rural areas, or urbanized areas. The 1990 census is the first for which the entire United States and its possessions are block-numbered.

Blocks are numbered uniquely within each census tract or BNA. A block is identified by a three-digit number, sometimes with a single alphabetical suffix. Block numbers

with suffixes generally represent collection blocks that were "split" in order to identify separate geographic entities that divide the original block. For example, when a city limit runs through data collection block 101, the data for the portion inside the city is tabulated in block 101A and the portion outside, in block 101B. A block number with the suffix "Z" represents a "crews-of-vessels" entity for which the Census Bureau tabulates data, but that does not represent a true geographic area; such a block is shown on census maps associated with an anchor symbol and a census tract or block numbering area with a .99 suffix.

BLOCK GROUP (BG)

Geographic Block Group

A geographic block group (BG) is a cluster of blocks having the same first digit of their three-digit identifying numbers within a census tract or block numbering area (BNA). For example, BG 3 within a census tract or BNA includes all blocks numbered between 301 and 397. In most cases, the numbering involves substantially fewer than 97 blocks. Geographic BG's never cross census tract or BNA boundaries, but may cross the boundaries of county subdivisions, places, American Indian and Alaska Native areas, urbanized areas, voting districts, and congressional districts. BG's generally contain between 250 and 550 housing units, with the ideal size being 400 housing units.

Tabulation Block Group

In the data tabulations, a geographic BG may be split to present data for every unique combination of county subdivision, place, American Indian and Alaska Native area, urbanized area, voting district, urban/rural and congressional district shown in the data product; for example, if BG 3 is partly in a city and partly outside the city, there will be separate tabulated records for each portion of BG 3. BG's are used in tabulating decennial census data nationwide in the 1990 census, in all block-numbered areas in the 1980 census, and in Tape Address Register (TAR) areas in the 1970 census. For purposes of data presentation, BG's are a substitute for the enumeration districts (ED's) used for reporting data in many parts of the United States for the 1970 and 1980 censuses, and in all areas for pre-1970 censuses.

BOUNDARY CHANGES

The boundaries of some counties, county subdivisions, American Indian and Alaska Native areas, and many incorporated places, changed between those reported for the 1980 census and January 1, 1990. Boundary changes to legal entities result from:

1. Annexations to or detachments from legally established governmental units.
2. Mergers or consolidations of two or more governmental units.
3. Establishment of new governmental units.
4. Disincorporations or disorganizations of existing governmental units.
5. Changes in treaties and Executive Orders.

The historical counts shown for counties, county subdivisions, and places are not updated for such changes, and thus reflect the population and housing units in the area as delineated at each census. Information on boundary changes reported between the 1980 and 1990 censuses for counties, county subdivisions, and incorporated places is presented in the "User Notes" section of the technical documentation of Summary Tape Files 1 and 3, and in the 1990 CPH-2, *Population and Housing Unit Counts* printed reports. For information on boundary changes for such areas in the decade preceding other decennial censuses, see the *Number of Inhabitants* reports for each census. Boundary changes are not reported for some areas, such as census designated places and block groups.

CENSUS REGION AND CENSUS DIVISION

Census Division

Census divisions are groupings of States that are subdivisions of the four census regions. There are nine divisions, which the Census Bureau adopted in 1910 for the presentation of data. The regions, divisions, and their constituent States are:

Northeast Region

New England Division:

Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, Connecticut

Middle Atlantic Division:

New York, New Jersey, Pennsylvania

Midwest Region

East North Central Division:

Ohio, Indiana, Illinois, Michigan, Wisconsin

West North Central Division:

Minnesota, Iowa, Missouri, North Dakota, South Dakota, Nebraska, Kansas

South Region

South Atlantic Division:

Delaware, Maryland, District of Columbia, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida

East South Central Division:

Kentucky, Tennessee, Alabama, Mississippi

West South Central Division:

Arkansas, Louisiana, Oklahoma, Texas

West Region

Mountain Division:

Montana, Idaho, Wyoming, Colorado, New Mexico, Arizona, Utah, Nevada

Pacific Division:

Washington, Oregon, California, Alaska, Hawaii

Census Region

Census regions are groupings of States that subdivide the United States for the presentation of data. There are four regions—Northeast, Midwest, South, and West. Each of the four census regions is divided into two or more census divisions. Prior to 1984, the Midwest region was named the North Central region. From 1910, when census regions were established, through the 1940's, there were three regions—North, South, and West.

CENSUS TRACT AND BLOCK NUMBERING AREA

Block Numbering Area (BNA)

Block numbering areas (BNA's) are small statistical subdivisions of a county for grouping and numbering blocks in nonmetropolitan counties where local census statistical areas committees have not established census tracts. State agencies and the Census Bureau delineated BNA's for the 1990 census, using guidelines similar to those for the delineation of census tracts. BNA's do not cross county boundaries.

BNA's are identified by a four-digit basic number and may have a two-digit suffix; for example, 9901.07. The decimal point separating the four-digit basic BNA number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many BNA's do not have a suffix; in such cases, the suffix field is left blank in all data products. BNA numbers range from 9501 through 9989.99, and are unique within a county (numbers in the range of 0001 through 9499.99 denote a census tract). The suffix .99 identifies a BNA that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" BNA appears on census maps only as an anchor symbol with its BNA number (and block numbers on maps showing block numbers); the BNA relates to the ships associated with the onshore BNA's having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify BNA's that either were revised or were created during the 1990 census data collection activities.

Some of these revisions produced BNA's that have extremely small land area and may have little or no population or housing. For data analysis, such a BNA can be summarized with an adjacent BNA.

Census Tract

Census tracts are small, relatively permanent statistical subdivisions of a county. Census tracts are delineated for all metropolitan areas (MA's) and other densely populated counties by local census statistical areas committees following Census Bureau guidelines (more than 3,000 census tracts have been established in 221 counties outside MA's). Six States (California, Connecticut, Delaware, Hawaii, New Jersey, and Rhode Island) and the District of Columbia are covered entirely by census tracts. Census tracts usually have between 2,500 and 8,000 persons and, when first delineated, are designed to be homogeneous with respect to population characteristics, economic status, and living conditions. Census tracts do not cross county boundaries. The spatial size of census tracts varies widely depending on the density of settlement. Census tract boundaries are delineated with the intention of being maintained over a long time so that statistical comparisons can be made from census to census. However, physical changes in street patterns caused by highway construction, new development, etc., may require occasional revisions; census tracts occasionally are split due to large population growth, or combined as a result of substantial population decline. Census tracts are referred to as "tracts" in all 1990 data products.

Census tracts are identified by a four-digit basic number and may have a two-digit suffix; for example, 6059.02. The decimal point separating the four-digit basic tract number from the two-digit suffix is shown in printed reports, in microfiche, and on census maps; in machine-readable files, the decimal point is implied. Many census tracts do not have a suffix; in such cases, the suffix field is left blank in all data products. Leading zeros in a census tract number (for example, 002502) are shown only on machine-readable files.

Census tract numbers range from 0001 through 9499.99 and are unique within a county (numbers in the range of 9501 through 9989.99 denote a block numbering area). The suffix .99 identifies a census tract that was populated entirely by persons aboard one or more civilian or military ships. A "crews-of-vessels" census tract appears on census maps only as an anchor symbol with its census tract number (and block numbers on maps showing block numbers). These census tracts relate to the ships associated with the onshore census tract having the same four-digit basic number. Suffixes in the range .80 through .98 usually identify census tracts that either were revised or were created during the 1990 census data collection activities. Some of these revisions may have resulted in census tracts that have extremely small land area and may have little or no population or housing. For data analysis, such a census tract can be summarized with an adjacent census tract.

CONGRESSIONAL DISTRICT (CD)

Congressional districts (CD's) are the 435 areas from which persons are elected to the U.S. House of Representatives. After the apportionment of congressional seats among the States, based on census population counts, each State is responsible for establishing CD's for the purpose of electing representatives. Each CD is to be as equal in population to all other CD's in the State as practicable, based on the decennial census counts.

The CD's that were in effect on January 1, 1990 were those of the 101st Congress. Data on the 101st Congress appear in an early 1990 census data product (Summary Tape File 1A). The CD's of the 101st Congress are the same as those in effect for the 102nd Congress. CD's of the 103rd Congress, reflecting redistricting based on the 1990 census, are summarized in later 1990 data products (STF's 1D and 3D, and 1990 CPH-4, *Population and Housing Characteristics for Congressional Districts of the 103rd Congress* printed reports).

COUNTY

The primary political divisions of most States are termed "counties." In Louisiana, these divisions are known as "parishes." In Alaska, which has no counties, the county equivalents are the organized "boroughs" and the "census areas" that are delineated for statistical purposes by the State of Alaska and the Census Bureau. In four States (Maryland, Missouri, Nevada, and Virginia), there are one or more cities that are independent of any county organization and thus constitute primary divisions of their States. These cities are known as "independent cities" and are treated as equivalent to counties for statistical purposes. That part of Yellowstone National Park in Montana is treated as a county equivalent. The District of Columbia has no primary divisions, and the entire area is considered equivalent to a county for statistical purposes.

Each county and county equivalent is assigned a three-digit FIPS code that is unique within State. These codes are assigned in alphabetical order of county or county equivalent within State, except for the independent cities, which follow the listing of counties.

COUNTY SUBDIVISION

County subdivisions are the primary subdivisions of counties and their equivalents for the reporting of decennial census data. They include census county divisions, census subareas, minor civil divisions, and unorganized territories.

Each county subdivision is assigned a three-digit census code in alphabetical order within county and a five-digit FIPS code in alphabetical order within State.

Census County Division (CCD)

Census county divisions (CCD's) are subdivisions of a county that were delineated by the Census Bureau, in cooperation with State officials and local census statistical

areas committees, for statistical purposes. CCD's were established in 21 States where there are no legally established minor civil divisions (MCD's), where the MCD's do not have governmental or administrative purposes, where the boundaries of the MCD's change frequently, and/or where the MCD's are not generally known to the public. CCD's have no legal functions, and are not governmental units.

The boundaries of CCD's usually are delineated to follow visible features, and in most cases coincide with census tract or block numbering area boundaries. The name of each CCD is based on a place, county, or well-known local name that identifies its location. CCD's have been established in the following 21 States: Alabama, Arizona, California, Colorado, Delaware, Florida, Georgia, Hawaii, Idaho, Kentucky, Montana, Nevada, New Mexico, Oklahoma, Oregon, South Carolina, Tennessee, Texas, Utah, Washington, and Wyoming. For the 1980 census, the county subdivisions recognized for Nevada were MCD's.

Census Subarea (Alaska)

Census subareas are statistical subdivisions of boroughs and census areas (county equivalents) in Alaska. Census subareas were delineated cooperatively by the State of Alaska and the Census Bureau. The census subareas, identified first in 1980, replaced the various types of subdivisions used in the 1970 census.

Minor Civil Division (MCD)

Minor civil divisions (MCD's) are the primary political or administrative divisions of a county. MCD's represent many different kinds of legal entities with a wide variety of governmental and/or administrative functions. MCD's are variously designated as American Indian reservations, assessment districts, boroughs, election districts, gores, grants, magisterial districts, parish governing authority districts, plantations, precincts, purchases, supervisors' districts, towns, and townships. In some States, all or some incorporated places are not located in any MCD and thus serve as MCD's in their own right. In other States, incorporated places are subordinate to (part of) the MCD's in which they are located, or the pattern is mixed—some incorporated places are independent of MCD's and others are subordinate to one or more MCD's.

The Census Bureau recognizes MCD's in the following 28 States: Arkansas, Connecticut, Illinois, Indiana, Iowa, Kansas, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Carolina, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, Virginia, West Virginia, and Wisconsin. The District of Columbia has no primary divisions, and the entire area is considered equivalent to an MCD for statistical purposes.

The MCD's in 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin) also serve as general-purpose local governments. The Census Bureau presents data for these MCD's in all data products in which it provides data for places.

Unorganized Territory (unorg.)

In nine States (Arkansas, Iowa, Kansas, Louisiana, Maine, Minnesota, North Carolina, North Dakota, and South Dakota), some counties contain territory that is not included in an MCD recognized by the Census Bureau. Each separate area of unorganized territory in these States is recognized as one or more separate county subdivisions for census purposes. Each unorganized territory is given a descriptive name, followed by the designation "unorg."

GEOGRAPHIC CODE

Geographic codes are shown primarily on machine-readable data products, such as computer tape and compact disc-read only memory (CD-ROM), but also appear on other products such as microfiche; they also are shown on some census maps. Codes are identified as "census codes" only if there is also a Federal Information Processing Standards (FIPS) code for the same geographic entity. A code that is not identified as either "census" or "FIPS" is usually a census code for which there is no FIPS equivalent, or for which the Census Bureau does not use the FIPS code. The exceptions, which use only the FIPS code in census products, are county, congressional district, and metropolitan area (that is, metropolitan statistical area, consolidated metropolitan statistical area, and primary metropolitan statistical area).

Census Code

Census codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, census division, census region, county subdivision, place, State, urbanized area, and voting district. The structure, format, and meaning of census codes appear in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

Federal Information Processing Standards (FIPS) Code

Federal Information Processing Standards (FIPS) codes are assigned for a variety of geographic entities, including American Indian and Alaska Native area, congressional district, county, county subdivision, metropolitan area, place, and State. The structure, format, and meaning of FIPS

codes used in the census are shown in the 1990 census *Geographic Identification Code Scheme*; in the data dictionary portion of the technical documentation for summary tape files, CD-ROM's, and microfiche.

The objective of the FIPS codes is to improve the use of data resources of the Federal Government and avoid unnecessary duplication and incompatibilities in the collection, processing, and dissemination of data. More information about FIPS and FIPS code documentation is available from the National Technical Information Service, Springfield, VA 22161.

United States Postal Service (USPS) Code

United States Postal Service (USPS) codes for States are used in all 1990 data products. The codes are two-character alphabetic abbreviations. These codes are the same as the FIPS two-character alphabetic abbreviations.

GEOGRAPHIC PRESENTATION

Hierarchical Presentation

A hierarchical geographic presentation shows the geographic entities in a superior/subordinate structure in census products. This structure is derived from the legal, administrative, or areal relationships of the entities. The hierarchical structure is depicted in report tables by means of indentation, and is explained for machine-readable media in the discussion of file structure in the geographic coverage portion of the abstract in the technical documentation. An example of hierarchical presentation is the "standard census geographic hierarchy": block, within block group, within census tract or block numbering area, within place, within county subdivision, within county, within State, within division, within region, within the United States. Graphically, this is shown as:

```
United States
  Region
    Division
      State
        County
          County subdivision
            Place (or part)
              Census tract/block numbering area
                (or part)
                  Block group (or part)
                    Block
```

Inventory Presentation

An inventory presentation of geographic entities is one in which all entities of the same type are shown in alphabetical or code sequence, without reference to their hierarchical relationships. Generally, an inventory presentation shows totals for entities that may be split in a hierarchical presentation, such as place, census tract/

block numbering area, or block group. An example of a series of inventory presentations is: State, followed by all the counties in that State, followed by all the places in that State. Graphically, this is shown as:

State
County "A"
County "B"
County "C"

Place "X"
Place "Y"
Place "Z"

HISTORICAL COUNTS

Historical counts for total population and total housing units are shown in the 1990 CPH-2, *Population and Housing Unit Counts* report series. As in past censuses, the general rule for presenting historical data for States, counties, county subdivisions, and places is to show historical counts only for single, continually existing entities. Stated another way, if an entity existed for both the current and preceding censuses, the tables show counts for the preceding censuses. Included in this category are entities of the same type (county, county subdivision, place) even if they had changed their names. Also included are entities that merged, but only if the new entity retained the name of one of the merged entities. The historical counts shown are for each entity as it was bounded at each census.

In cases where an entity was formed since a preceding census, such as a newly incorporated place or a newly organized township, the symbol three dots "..." is shown for earlier censuses. The three-dot symbol also is shown for those parts of a place that have extended into an additional county or county subdivision through annexation or other revision of boundaries since the preceding census.

In a few cases, changes in the boundaries of county subdivisions caused a place to be split into two or more parts, or to be split differently than in the preceding census. If historical counts for the parts of the place as currently split did not appear in a preceding census, "(NA)" is shown for the place in each county subdivision; however, the historical population and housing unit counts of the place appear in tables that show the entire place. For counties, county subdivisions, and places formed since January 1, 1980, 1980 census population and housing unit counts in the 1990 territory are reported in the geographic change notes included in the "User Notes" text section of 1990 CPH-2, *Population and Housing Unit Counts*, and in the technical documentation of Summary Tape Files 1 and 3.

In some cases, population and housing unit counts for individual areas were revised since publication of the 1980 reports (indicated by the prefix "r"). In a number of tables of 1990 CPH-2, *Population and Housing Unit Counts*, 1980 counts are shown for aggregations of individual areas,

such as the number, population, and housing unit counts of places in size groups, or urban and rural distributions. Revisions of population and housing unit counts for individual areas were not applied to the various aggregations. Therefore, it may not be possible to determine the individual areas in a given aggregation using the historical counts; conversely, the sum of the counts shown for individual areas may not agree with the aggregation.

INTERNAL POINT

An internal point is a set of geographic coordinates (latitude and longitude) that is located within a specified geographic entity. A single point is identified for each entity; for many entities, this point represents the approximate geographic center of that entity. If the shape of the entity caused this point to be located outside the boundaries of the entity, it is relocated from the center so that it is within the entity. If the internal point for a block falls in a water area, it is relocated to a land area within the block. On machine-readable products, internal points are shown to six decimal places; the decimal point is implied.

METROPOLITAN AREA (MA)

The general concept of a metropolitan area (MA) is one of a large population nucleus, together with adjacent communities that have a high degree of economic and social integration with that nucleus. Some MA's are defined around two or more nuclei.

The MA classification is a statistical standard, developed for use by Federal agencies in the production, analysis, and publication of data on MA's. The MA's are designated and defined by the Federal Office of Management and Budget, following a set of official published standards. These standards were developed by the inter-agency Federal Executive Committee on Metropolitan Areas, with the aim of producing definitions that are as consistent as possible for all MA's nationwide.

Each MA must contain either a place with a minimum population of 50,000 or a Census Bureau-defined urbanized area and a total MA population of at least 100,000 (75,000 in New England). An MA comprises one or more central counties. An MA also may include one or more outlying counties that have close economic and social relationships with the central county. An outlying county must have a specified level of commuting to the central counties and also must meet certain standards regarding metropolitan character, such as population density, urban population, and population growth. In New England, MA's are composed of cities and towns rather than whole counties.

The territory, population, and housing units in MA's are referred to as "metropolitan." The metropolitan category is subdivided into "inside central city" and "outside central city." The territory, population, and housing units located outside MA's are referred to as "nonmetropolitan." The

metropolitan and nonmetropolitan classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

To meet the needs of various users, the standards provide for a flexible structure of metropolitan definitions that classify an MA either as a metropolitan statistical area (MSA) or as a consolidated metropolitan statistical area (CMSA) that is divided into primary metropolitan statistical areas (PMSA's). Documentation of the MA standards and how they are applied is available from the Secretary, Federal Executive Committee on Metropolitan Areas, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Central City

In each MSA and CMSA, the largest place and, in some cases, additional places are designated as "central cities" under the official standards. A few PMSA's do not have central cities. The largest central city and, in some cases, up to two additional central cities are included in the title of the MA; there also are central cities that are not included in an MA title. An MA central city does not include any part of that city that extends outside the MA boundary.

Consolidated and Primary Metropolitan Statistical Area (CMSA and PMSA)

If an area that qualifies as an MA has more than one million persons, primary metropolitan statistical areas (PMSA's) may be defined within it. PMSA's consist of a large urbanized county or cluster of counties that demonstrates very strong internal economic and social links, in addition to close ties to other portions of the larger area. When PMSA's are established, the larger area of which they are component parts is designated a consolidated metropolitan statistical area (CMSA).

Metropolitan Statistical Area (MSA)

Metropolitan statistical areas (MSA's) are relatively free-standing MA's and are not closely associated with other MA's. These areas typically are surrounded by nonmetropolitan counties.

Metropolitan Area Title and Code

The title of an MSA contains the name of its largest central city and up to two additional city names, provided that the additional places meet specified levels of population, employment, and commuting. Generally, a city with a population of 250,000 or more is in the title, regardless of other criteria.

The title of a PMSA may contain up to three place names, as determined above, or up to three county names, sequenced in order of population. A CMSA title also may include up to three names, the first of which generally is

the most populous central city in the area. The second name may be the first city or county name in the most populous remaining PMSA; the third name may be the first city or county name in the next most populous PMSA. A regional designation may be substituted for the second and/or third names in a CMSA title if such a designation is supported by local opinion and is deemed to be unambiguous and suitable by the Office of Management and Budget.

The titles for all MA's also contain the name of each State in which the area is located. Each metropolitan area is assigned a four-digit FIPS code, in alphabetical order nationwide. If the fourth digit of the code is a "2," it identifies a CMSA. Additionally, there is a separate set of two-digit codes for CMSA's, also assigned alphabetically.

OUTLYING AREAS OF THE UNITED STATES

The Census Bureau treats the outlying areas as the statistical equivalents of States for the 1990 census. The outlying areas are American Samoa, Guam, the Commonwealth of the Northern Mariana Islands (Northern Mariana Islands), Republic of Palau (Palau), Puerto Rico, and the Virgin Islands of the United States (Virgin Islands). Geographic definitions specific to each outlying area are shown in appendix A of the text in the data products for each area.

PLACE

Places, for the reporting of decennial census data, include census designated places and incorporated places. Each place is assigned a four-digit census code that is unique within State. Each place is also assigned a five-digit FIPS code that is unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State. Consolidated cities (see below) are assigned a one-character alphabetical census code that is unique nationwide and a five-digit FIPS code that is unique within State.

Census Designated Place (CDP)

Census designated places (CDP's) are delineated for the decennial census as the statistical counterparts of incorporated places. CDP's comprise densely settled concentrations of population that are identifiable by name, but are not legally incorporated places. Their boundaries, which usually coincide with visible features or the boundary of an adjacent incorporated place, have no legal status, nor do these places have officials elected to serve traditional municipal functions. CDP boundaries may change with changes in the settlement pattern; a CDP with the same name as in previous censuses does not necessarily have the same boundaries.

Beginning with the 1950 census, the Census Bureau, in cooperation with State agencies and local census statistical areas committees, has identified and delineated boundaries for CDP's. In the 1990 census, the name of each such place is followed by "CDP." In the 1980 census, "(CDP)" was used; in 1970, 1960, and 1950 censuses, these places were identified by "(U)," meaning "unincorporated place."

To qualify as a CDP for the 1990 census, an unincorporated community must have met the following criteria:

1. In all States except Alaska and Hawaii, the Census Bureau uses three population size criteria to designate a CDP. These criteria are:
 - a. 1,000 or more persons if outside the boundaries of an urbanized area (UA) delineated for the 1980 census or a subsequent special census.
 - b. 2,500 or more persons if inside the boundaries of a UA delineated for the 1980 census or a subsequent special census.
 - c. 250 or more persons if outside the boundaries of a UA delineated for the 1980 census or a subsequent special census, and within the official boundaries of an American Indian reservation recognized for the 1990 census.
2. In Alaska, 25 or more persons if outside a UA, and 2,500 or more persons if inside a UA delineated for the 1980 census or a subsequent special census.
3. In Hawaii, 300 or more persons, regardless of whether the community is inside or outside a UA.

For the 1990 census, CDP's qualified on the basis of the population counts prepared for the 1990 Postcensus Local Review Program. Because these counts were subject to change, a few CDP's may have final population counts lower than the minimums shown above.

Hawaii is the only State with no incorporated places recognized by the Bureau of the Census. All places shown for Hawaii in the data products are CDP's. By agreement with the State of Hawaii, the Census Bureau does not show data separately for the city of Honolulu, which is coextensive with Honolulu County.

Consolidated City

A consolidated government is a unit of local government for which the functions of an incorporated place and its county or minor civil division (MCD) have merged. The legal aspects of this action may result in both the primary incorporated place and the county or MCD continuing to exist as legal entities, even though the county or MCD performs few or no governmental functions and has few or no elected officials. Where this occurs, and where one or more other incorporated places in the county or MCD

continue to function as separate governments, even though they have been included in the consolidated government, the primary incorporated place is referred to as a "consolidated city."

The data presentation for consolidated cities varies depending upon the geographic presentation. In hierarchical presentations, consolidated cities are not shown. These presentations include the semi-independent places and the "consolidated city (remainder)." Where the consolidated city is coextensive with a county or county subdivision, the data shown for those areas in hierarchical presentations are equivalent to those for the consolidated government.

For inventory geographic presentations, the consolidated city appears at the end of the listing of places. The data for the consolidated city include places that are part of the consolidated city. The "consolidated city (remainder)" is the portion of the consolidated government minus the semi-independent places, and is shown in alphabetical sequence with other places.

In summary presentations by size of place, the consolidated city is not included. The places semi-independent of consolidated cities are categorized by their size, as is the "consolidated city (remainder)."

Each consolidated city is assigned a one-character alphabetic census code. Each consolidated city also is assigned a five-digit FIPS code that is unique within State. The semi-independent places and the "consolidated city (remainder)" are assigned a four-digit census code and a five-digit FIPS place code that are unique within State. Both the census and FIPS codes are assigned based on alphabetical order within State.

Incorporated Place

Incorporated places recognized in 1990 census data products are those reported to the Census Bureau as legally in existence on January 1, 1990 under the laws of their respective States as cities, boroughs, towns, and villages, with the following exceptions: the towns in the New England States, New York, and Wisconsin, and the boroughs in New York are recognized as minor civil divisions for census purposes; the boroughs in Alaska are county equivalents.

POPULATION OR HOUSING UNIT DENSITY

Population or housing unit density is computed by dividing the total population or housing units of a geographic unit (for example, United States, State, county, place) by its land area measured in square kilometers or square miles. Density is expressed as both "persons (or housing units) per square kilometer" and "persons (or housing units) per square mile" of land area in 1990 census printed reports.

STATE

States are the primary governmental divisions of the United States. The District of Columbia is treated as a statistical equivalent of a State for census purposes. The four census regions, nine census divisions, and their component States are shown under "CENSUS REGION AND CENSUS DIVISION" in this appendix.

The Census Bureau treats the outlying areas as State equivalents for the 1990 census. The outlying areas are American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands of the United States. Geographic definitions specific to each outlying area are shown in appendix A in the data products for each area.

Each State and equivalent is assigned a two-digit numeric Federal Information Processing Standards (FIPS) code in alphabetical order by State name, followed by the outlying area names. Each State and equivalent area also is assigned a two-digit census code. This code is assigned on the basis of the geographic sequence of each State within each census division; the first digit of the code is the code for the respective division. Puerto Rico, the Virgin Islands, and the outlying areas of the Pacific are assigned "0" as the division code. Each State and equivalent area also is assigned the two-letter FIPS/United States Postal Service (USPS) code.

In 12 selected States (Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin), the minor civil divisions also serve as general-purpose local governments. The Census Bureau presents data for these minor civil divisions in all data products in which it provides data for places.

TIGER

TIGER is an acronym for the new digital (computer-readable) geographic data base that automates the mapping and related geographic activities required to support the Census Bureau's census and survey programs. The Census Bureau developed the Topologically Integrated Geographic Encoding and Referencing (TIGER) System to automate the geographic support processes needed to meet the major geographic needs of the 1990 census: producing the cartographic products to support data collection and map publication, providing the geographic structure for tabulation and publication of the collected data, assigning residential and employer addresses to their geographic location and relating those locations to the Census Bureau's geographic units, and so forth. The content of the TIGER data base is made available to the public through a variety of "TIGER Extract" files that may be obtained from the Data User Services Division, U.S. Bureau of the Census, Washington, DC 20233.

UNITED STATES

The United States comprises the 50 States and the District of Columbia. In addition, the Census Bureau treats

the outlying areas as statistical equivalents of States for the 1990 census. The outlying areas include American Samoa, Guam, the Northern Mariana Islands, Palau, Puerto Rico, and the Virgin Islands.

URBAN AND RURAL

The Census Bureau defines "urban" for the 1990 census as comprising all territory, population, and housing units in urbanized areas and in places of 2,500 or more persons outside urbanized areas. More specifically, "urban" consists of territory, persons, and housing units in:

1. Places of 2,500 or more persons incorporated as cities, villages, boroughs (except in Alaska and New York), and towns (except in the six New England States, New York, and Wisconsin), but excluding the rural portions of "extended cities."
2. Census designated places of 2,500 or more persons.
3. Other territory, incorporated or unincorporated, included in urbanized areas.

Territory, population, and housing units not classified as urban constitute "rural." In the 100-percent data products, "rural" is divided into "places of less than 2,500" and "not in places." The "not in places" category comprises "rural" outside incorporated and census designated places and the rural portions of extended cities. In many data products, the term "other rural" is used; "other rural" is a residual category specific to the classification of the rural in each data product.

In the sample data products, rural population and housing units are subdivided into "rural farm" and "rural nonfarm." "Rural farm" comprises all rural households and housing units on farms (places from which \$1,000 or more of agricultural products were sold in 1989); "rural nonfarm" comprises the remaining rural.

The urban and rural classification cuts across the other hierarchies; for example, there is generally both urban and rural territory within both metropolitan and nonmetropolitan areas.

In censuses prior to 1950, "urban" comprised all territory, persons, and housing units in incorporated places of 2,500 or more persons, and in areas (usually minor civil divisions) classified as urban under special rules relating to population size and density. The definition of urban that restricted itself to incorporated places having 2,500 or more persons excluded many large, densely settled areas merely because they were not incorporated. Prior to the 1950 census, the Census Bureau attempted to avoid some of the more obvious omissions by classifying selected areas as "urban under special rules." Even with these rules, however, many large, closely built-up areas were excluded from the urban category.

To improve its measure of urban territory, population, and housing units, the Census Bureau adopted the concept of the urbanized area and delineated boundaries for

unincorporated places (now, census designated places) for the 1950 census. Urban was defined as territory, persons, and housing units in urbanized areas and, outside urbanized areas, in all places, incorporated or unincorporated, that had 2,500 or more persons. With the following three exceptions, the 1950 census definition of urban has continued substantially unchanged. First, in the 1960 census (but not in the 1970, 1980, or 1990 censuses), certain towns in the New England States, townships in New Jersey and Pennsylvania, and Arlington County, Virginia, were designated as urban. However, most of these "special rule" areas would have been classified as urban anyway because they were included in an urbanized area or in an unincorporated place of 2,500 or more persons. Second, "extended cities" were identified for the 1970, 1980, and 1990 censuses. Extended cities primarily affect the figures for urban and rural territory (area), but have very little effect on the urban and rural population and housing units at the national and State levels— although for some individual counties and urbanized areas, the effects have been more evident. Third, changes since the 1970 census in the criteria for defining urbanized areas have permitted these areas to be defined around smaller centers.

Documentation of the urbanized area and extended city criteria is available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Extended City

Since the 1960 census, there has been a trend in some States toward the extension of city boundaries to include territory that is essentially rural in character. The classification of all the population and living quarters of such places as urban would include in the urban designation territory, persons, and housing units whose environment is primarily rural. For the 1970, 1980, and 1990 censuses, the Census Bureau identified as rural such territory and its population and housing units for each extended city whose closely settled area was located in an urbanized area. For the 1990 census, this classification also has been applied to certain places outside urbanized areas.

In summary presentations by size of place, the urban portion of an extended city is classified by the population of the entire place; the rural portion is included in "other rural."

URBANIZED AREA (UA)

The Census Bureau delineates urbanized areas (UA's) to provide a better separation of urban and rural territory, population, and housing in the vicinity of large places. A UA comprises one or more places ("central place") and the adjacent densely settled surrounding territory ("urban fringe") that together have a minimum of 50,000 persons. The urban fringe generally consists of contiguous territory having a density of least 1,000 persons per square mile. The urban fringe also includes outlying territory of such

density if it was connected to the core of the contiguous area by road and is within 1 1/2 road miles of that core, or within 5 road miles of the core but separated by water or other undevelopable territory. Other territory with a population density of fewer than 1,000 people per square mile is included in the urban fringe if it eliminates an enclave or closes an indentation in the boundary of the urbanized area. The population density is determined by (1) outside of a place, one or more contiguous census blocks with a population density of at least 1,000 persons per square mile or (2) inclusion of a place containing census blocks that have at least 50 percent of the population of the place and a density of at least 1,000 persons per square mile. The complete criteria are available from the Chief, Geography Division, U.S. Bureau of the Census, Washington, DC 20233.

Urbanized Area Central Place

One or more central places function as the dominant centers of each UA. The identification of a UA central place permits the comparison of this dominant center with the remaining territory in the UA. There is no limit on the number of central places, and not all central places are necessarily included in the UA title. UA central places include:

1. Each place entirely (or partially, if the place is an extended city) within the UA that is a central city of a metropolitan area (MA).
2. If the UA does not contain an MA central city or is located outside of an MA, the central place(s) is determined by population size.

Urbanized Area Title and Code

The title of a UA identifies those places that are most important within the UA; it links the UA to the encompassing MA, where appropriate. If a single MA includes most of the UA, the title and code of the UA generally are the same as the title and code of the MA. If the UA is not mostly included in a single MA, if it does not include any place that is a central city of the encompassing MA, or if it is not located in an MA, the Census Bureau uses the population size of the included places, with a preference for incorporated places, to determine the UA title. The name of each State in which the UA is located also is in each UA title.

The numeric code used to identify each UA is the same as the code for the mostly encompassing MA (including CMSA and PMSA). If MA title cities represent multiple UA's, or the UA title city does not correspond to the first name of an MA title, the Census Bureau assigns a code based on the alphabetical sequence of the UA title in relationship to the other UA and MA titles.

VOTING DISTRICT (VTD)

A voting district (VTD) is any of a variety of types of areas (for example, election districts, precincts, wards, legislative districts) established by State and local governments for purposes of elections. For census purposes,

each State participating in Phase 2 of the 1990 Census Redistricting Data Program outlined the boundaries of VTD's around groups of whole census blocks on census maps. The entities identified as VTD's are not necessarily those legally or currently established. Also, to meet the "whole block" criterion, a State may have had to adjust VTD boundaries to nearby block boundaries. Therefore, the VTD's shown on the 1990 census tapes, listings, and maps may not represent the actual VTD's in effect at the time of the census. In the 1980 census, VTD's were referred to as "election precincts."

Each VTD is assigned a four-character alphanumeric code that is unique within each county. The code "ZZZZ" is assigned to nonparticipating areas; the Census Bureau reports data for areas coded "ZZZZ."

ZIP CODE®

ZIP Codes are administrative units established by the United States Postal Service (USPS) for the distribution of mail. ZIP Codes serve addresses for the most efficient delivery of mail, and therefore generally do not respect political or census statistical area boundaries. ZIP Codes usually do not have clearly identifiable boundaries, often serve a continually changing area, are changed periodically to meet postal requirements, and do not cover all the land area of the United States. ZIP Codes are identified by five-digit codes assigned by the USPS. The first three digits identify a major city or sectional distribution center, and the last two digits generally signify a specific post office's delivery area or point. For the 1990 census, ZIP Code data are tabulated for the five-digit codes in STF 3B.



APPENDIX B.

Definitions of Subject Characteristics

CONTENTS

POPULATION CHARACTERISTICS	B-2
Ability to Speak English (<i>See Language Spoken at Home and Ability to Speak English</i>)	
Actual Hours Worked Last Week (<i>See Employment Status</i>)	
Age	B-2
American Indian Tribe (<i>See Race</i>)	
Ancestry	B-2
Carpooling (<i>See Journey to Work</i>)	
Children Ever Born (<i>See Fertility</i>)	
Citizenship	B-4
Civilian Labor Force (<i>See Employment Status</i>)	
Class of Worker (<i>See Industry, Occupation, and Class of Worker</i>)	
Disability (<i>See Mobility Limitation Status, see Self-Care Limitation Status, see Work Disability Status</i>)	
Earnings in 1989 (<i>See Income in 1989</i>)	
Educational Attainment	B-4
Employment Status	B-5
Families (<i>See Household Type and Relationship</i>)	
Family Composition (<i>See Household Type and Relationship</i>)	
Family Income in 1989 (<i>See Income in 1989</i>)	
Family Size (<i>See Household Type and Relationship</i>)	
Family Type (<i>See Household Type and Relationship</i>)	
Farm Population (<i>See Farm Residence under Housing Characteristics</i>)	
Fertility	B-7
Foreign-Born Persons (<i>See Place of Birth</i>)	
Foster Children (<i>See Household Type and Relationship</i>)	
Group Quarters	B-7
Hispanic Origin	B-12
Household (<i>See Household Type and Relationship</i>)	
Household Income in 1989 (<i>See Income in 1989</i>)	
Household Language (<i>See Language Spoken At Home and Ability to Speak English</i>)	
Household Size (<i>See Household Type and Relationship</i>)	
Household Type and Relationship	B-13
Householder (<i>See Household Type and Relationship</i>)	
Income Deficit (<i>See Income in 1989</i>)	
Income in 1989	B-15
Income Type in 1989 (<i>See Income in 1989</i>)	
Industry, Occupation, and Class of Worker	B-19
Institutionalized Persons (<i>See Group Quarters</i>)	
Journey to Work	B-21
Labor Force Status (<i>See Employment Status</i>)	
Language Spoken at Home and Ability to Speak English	B-23
Linguistic Isolation (<i>See Language Spoken at Home and Ability to Speak English</i>)	
Marital Status	B-25
Married Couples (<i>See Marital Status</i>)	
Means of Transportation to Work (<i>See Journey to Work</i>)	
Migration (<i>See Residence in 1985</i>)	
Mobility Limitation Status	B-26
Nativity (<i>See Place of Birth</i>)	
Noninstitutionalized Group Quarters (<i>See Group Quarters</i>)	
Occupation (<i>See Industry, Occupation, and Class of Worker</i>)	
Own Children (<i>See Household Type and Relationship</i>)	
Per Capita Income (<i>See Income in 1989</i>)	
Period of Military Service (<i>See Veteran Status</i>)	
Persons in Family (<i>See Household Type and Relationship</i>)	
Persons in Households (<i>See Household Type and Relationship</i>)	
Place of Birth	B-26
Place of Work (<i>See Journey to Work</i>)	
Poverty Status in 1989	B-27
Presence of Children (<i>See Household Type and Relationship</i>)	
Private Vehicle Occupancy (<i>See Journey to Work</i>)	
Race	B-28
Reference Week	B-31

Related Children (<i>See Household Type and Relationship</i>)	
Residence in 1985	B-32
School Enrollment and Labor Force Status	B-33
School Enrollment and Type of School	B-33
Self-Care Limitation Status	B-34
Sex	B-34
Spanish Origin (<i>See Hispanic Origin</i>)	
Stepfamily (<i>See Household Type and Relationship</i>)	
Subfamily (<i>See Household Type and Relationship</i>)	
Time Leaving Home to Go to Work (<i>See Journey to Work</i>)	
Travel Time to Work (<i>See Journey to Work</i>)	
Type of School (<i>See School Enrollment and Type of School</i>)	
Usual Hours Worked Per Week Worked in 1989 (<i>See Work Status in 1989</i>)	
Veteran Status	B-34
Weeks Worked in 1989 (<i>See Work Status in 1989</i>)	
Work Disability Status	B-35
Work Status in 1989	B-35
Worker (<i>See Employment Status, see Industry, Occupation, and Class of Worker, see Journey to Work, see Work Status in 1989</i>)	
Workers in Family in 1989 (<i>See Work Status in 1989</i>)	
Year of Entry	B-36
Years of Military Service (<i>See Veteran Status</i>)	

HOUSING CHARACTERISTICS	B-36
Acreage	B-37
Age of Structure (<i>See Year Structure Built</i>)	
Agricultural Sales	B-38
Bedrooms	B-38
Boarded-Up Status	B-38
Business on Property	B-38
Condominium Fee	B-39
Condominium Status	B-39
Congregate Housing (<i>See Meals Included in Rent</i>)	
Contract Rent	B-39
Crop Sales (<i>See Agricultural Sales</i>)	
Duration of Vacancy	B-40
Farm Residence	B-40
Gross Rent	B-40
Gross Rent as a Percentage of Household Income in 1989	B-41
Homeowner Vacancy Rate (<i>See Vacancy Status</i>)	
House Heating Fuel	B-41
Housing Units (<i>See Living Quarters</i>)	
Insurance for Fire, Hazard, and Flood	B-41
Kitchen Facilities	B-41
Living Quarters	B-36
Meals Included in Rent	B-41
Mobile Home Costs	B-42
Months Vacant (<i>See Duration of Vacancy</i>)	
Mortgage Payment	B-42
Mortgage Status	B-42
Occupied Housing Units (<i>See Living Quarters</i>)	
Owner-Occupied Housing Units (<i>See Tenure</i>)	
Persons in Unit	B-43
Persons Per Room	B-43
Plumbing Facilities	B-43
Poverty Status of Households in 1989	B-43
Real Estate Taxes	B-43
Rental Vacancy Rate (<i>See Vacancy Status</i>)	
Renter-Occupied Housing Units (<i>See Tenure</i>)	
Rooms	B-44
Second or Junior Mortgage Payment	B-44
Selected Monthly Owner Costs	B-44
Selected Monthly Owner Costs as a Percentage of Household Income in 1989	B-45

CONTENTS—Con.

Sewage Disposal	B-45
Source of Water	B-45
Telephone in Housing Unit	B-45
Tenure	B-46
Type of Structure (<i>See Units in Structure</i>)	
Units in Structure	B-46
Usual Home Elsewhere	B-47
Utilities	B-47
Vacancy Status	B-47
Vacant Housing Units (<i>See Living Quarters</i>)	
Value	B-48
Vehicles Available	B-48
Year Householder Moved Into Unit	B-49
Year Structure Built	B-49
DERIVED MEASURES	B-49
Interpolation	B-49
Mean	B-49
Median	B-49
Percentages, Rates, and Ratios	B-50
Quartile	B-50

POPULATION CHARACTERISTICS

AGE

The data on age were derived from answers to questionnaire item 5, which was asked of all persons. The age classification is based on the age of the person in complete years as of April 1, 1990. The age response in question 5a was used normally to represent a person's age. However, when the age response was unacceptable or unavailable, a person's age was derived from an acceptable year-of-birth response in question 5b.

Data on age are used to determine the applicability of other questions for a person and to classify other characteristics in census tabulations. Age data are needed to interpret most social and economic characteristics used to plan and examine many programs and policies. Therefore, age is tabulated by single years of age and by many different groupings, such as 5-year age groups.

Some tabulations are shown by the age of the householder. These data were derived from the age responses for each householder. (For more information on householder, see the discussion under "Household Type and Relationship.")

Median Age—This measure divides the age distribution into two equal parts: one-half of the cases falling below the median value and one-half above the value. Generally, median age is computed on the basis of more detailed age intervals than are shown in some census publications; thus, a median based on a less detailed distribution may differ slightly from a corresponding median for the same population based on a more detailed distribution. (For more information on medians, see the discussion under "Derived Measures.")

Limitation of the Data—Counts in 1970 and 1980 for persons 100 years old and over were substantially overstated. Improvements were made in the questionnaire design, in the allocation procedures, and to the respondent instruction guide to attempt to minimize this problem for the 1990 census.

Review of detailed 1990 census information indicated that respondents tended to provide their age as of the date of completion of the questionnaire, not their age as of April 1, 1990. In addition, there may have been a tendency for respondents to round their age up if they were close to having a birthday. It is likely that approximately 10 percent of persons in most age groups are actually 1 year younger. For most single years of age, the misstatements are largely offsetting. The problem is most pronounced at age 0 because persons lost to age 1 may not have been fully offset by the inclusion of babies born after April 1, 1990, and because there may have been more rounding up to age 1 to avoid reporting age as 0 years. (Age in complete months was not collected for infants under age 1.)

The reporting of age 1 year older than age on April 1, 1990, is likely to have been greater in areas where the census data were collected later in 1990. The magnitude of this problem was much less in the three previous censuses where age was typically derived from respondent data on year of birth and quarter of birth. (For more information on the design of the age question, see the section below that discusses "Comparability.")

Comparability—Age data have been collected in every census. For the first time since 1950, the 1990 data are not available by quarter year of age. This change was made so that coded information could be obtained for both age and year of birth. In each census since 1940, the age of a person was assigned when it was not reported. In censuses before 1940, with the exception of 1880, persons of unknown age were shown as a separate category. Since 1960, assignment of unknown age has been performed by a general procedure described as "imputation." The specific procedures for imputing age have been different in each census. (For more information on imputation, see Appendix C, Accuracy of the Data.)

ANCESTRY

The data on ancestry were derived from answers to questionnaire item 13, which was asked of a sample of persons. The question was based on self-identification; the data on ancestry represent self-classification by people according to the ancestry group(s) with which they most closely identify. Ancestry refers to a person's ethnic origin or descent, "roots," or heritage or the place of birth of the person or the person's parents or ancestors before their arrival in the United States. Some ethnic identities, such as "Egyptian" or "Polish" can be traced to geographic areas outside the United States, while other ethnicities such as "Pennsylvania Dutch" or "Cajun" evolved in the United States.

The intent of the ancestry question was not to measure the degree of attachment the respondent had to a particular ethnicity. For example, a response of "Irish" might reflect total involvement in an "Irish" community or only a memory of ancestors several generations removed from the individual.

The Census Bureau coded the responses through an automated review, edit, and coding operation. The open-ended write-in ancestry item was coded by subject-matter specialists into a numeric representation using a code list containing over 1,000 categories. The 1990 code list reflects the results of the Census Bureau's own research and consultations with many ethnic experts. Many decisions were made to determine the classification of responses. These decisions affected the grouping of the tabulated data. For example, the "Assyrian" category includes both responses of "Assyrian" and "Chaldean."

The ancestry question allowed respondents to report one or more ancestry groups. While a large number of respondents listed a single ancestry, the majority of answers included more than one ethnic entry. Generally, only the first two responses reported were coded in 1990. If a response was in terms of a dual ancestry, for example, Irish-English, the person was assigned two codes, in this case one for Irish and another for English.

However, in certain cases, multiple responses such as "French Canadian," "Scotch-Irish," "Greek Cypriote," and "Black Dutch" were assigned a single code reflecting their status as unique groups. If a person reported one of these unique groups in addition to another group, for example, "Scotch-Irish English," resulting in three terms, that person received one code for the unique group ("Scotch-Irish") and another one for the remaining group ("English"). If a person reported "English Irish French," only English and Irish were coded. Certain combinations of ancestries where the ancestry group is a part of another, such as "German-Bavarian," the responses were coded as a single ancestry using the smaller group ("Bavarian"). Also, responses such as "Polish-American" or "Italian-American" were coded and tabulated as a single entry ("Polish" or "Italian").

The Census Bureau accepted "American" as a unique ethnicity if it was given alone, with an ambiguous response, or with State names. If the respondent listed any other ethnic identity such as "Italian American," generally the "American" portion of the response was not coded. However, distinct groups such as "American Indian," "Mexican American," and "African American" were coded and identified separately because they represented groups who considered themselves different from those who reported as "Indian," "Mexican," or "African," respectively.

In all tabulations, when respondents provided an unacceptable ethnic identity (for example, an uncodeable or unintelligible response such as "multi-national," "adopted," or "I have no idea"), the answer was included in "Ancestry not reported."

The tabulations on ancestry are presented using two types of data presentations—one used total persons as the base, and the other used total responses as the base. The following are categories shown in the two data presentations:

Presentation Based on Persons:

Single Ancestries Reported—Includes all persons who reported only one ethnic group. Included in this

category are persons with multiple-term responses such as "Scotch-Irish" who are assigned a single code.

Multiple Ancestries Reported—Includes all persons who reported more than one group and were assigned two ancestry codes.

Ancestry Unclassified—Includes all persons who provided a response that could not be assigned an ancestry code because they provided nonsensical entries or religious responses.

Presentations Based on Responses:

Total Ancestries Reported—Includes the total number of ancestries reported and coded. If a person reported a multiple ancestry such as "French Danish," that response was counted twice in the tabulations—once in the "French" category and again in the "Danish" category. Thus, the sum of the counts in this type of presentation is not the total population but the total of all responses.

First Ancestry Reported—Includes the first response of all persons who reported at least one codeable entry. For example, in this category, the count for "Danish" would include all those who reported only Danish and those who reported Danish first and then some other group.

Second Ancestry Reported—Includes the second response of all persons who reported a multiple ancestry. Thus, the count for "Danish" in this category includes all persons who reported Danish as the second response, regardless of the first response provided.

The Census Bureau identified hundreds of ethnic groups in the 1990 census. However, it was impossible to show information for every group in all census tabulations because of space constraints. Publications such as the 1990 CP-2, *Social and Economic Characteristics* and the 1990 CPH-3, *Population and Housing Characteristics for Census Tracts and Block Numbering Areas* reports show a limited number of groups based on the number reported and the advice received from experts. A more complete distribution of groups is presented in the 1990 Summary Tape File 4, supplementary reports, and a special subject report on ancestry. In addition, groups identified specifically in the questions on race and Hispanic origin (for example, Japanese, Laotian, Mexican, Cuban, and Spaniard), in general, are not shown separately in ancestry tabulations.

Limitation of the Data—Although some experts consider religious affiliation a component of ethnic identity, the ancestry question was not designed to collect any information concerning religion. The Bureau of the Census is prohibited from collecting information on religion. Thus, if a religion was given as an answer to the ancestry question, it was coded as an "Other" response.

Comparability—A question on ancestry was first asked in the 1980 census. Although there were no comparable data prior to the 1980 census, related information on ethnicity was collected through questions on parental birthplace, own birthplace, and language which were included in previous censuses. Unlike other census questions, there was no imputation for nonresponse to the ancestry question.

In 1990, respondents were allowed to report more than one ancestry group; however, only the first two ancestry groups identified were coded. In 1980, the Census Bureau attempted to code a third ancestry for selected triple-ancestry responses.

New categories such as "Arab" and "West Indian" were added to the 1990 question to meet important data needs. The "West Indian" category excluded "Hispanic" groups such as "Puerto Rican" and "Cuban" that were identified primarily through the question on Hispanic origin. In 1990, the ancestry group, "American" is recognized and tabulated as a unique ethnicity. In 1980, "American" was tabulated but included under the category "Ancestry not specified."

A major improvement in the 1990 census was the use of an automated coding system for ancestry responses. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses.

CITIZENSHIP

The data on citizenship were derived from answers to questionnaire item 9, which was asked of a sample of persons.

Citizen—Persons who indicated that they were native-born and foreign-born persons who indicated that they have become naturalized. (For more information on native and foreign born, see the discussion under "Place of Birth.")

There are four categories of citizenship: (1) born in the United States, (2) born in Puerto Rico, Guam, the Virgin Islands of the United States, or the Commonwealth of the Northern Mariana Islands, (3) born abroad of American parents, and (4) citizen by naturalization.

Naturalized Citizen—Foreign-born persons who had completed the naturalization process at the time of the census and upon whom the rights of citizenship had been conferred.

Not a Citizen—Foreign-born persons who were not citizens, including persons who had begun but not completed the naturalization process at the time of the census.

Limitation of the Data—Evaluation studies completed after previous censuses indicated that some persons may have reported themselves as citizens although they had not yet attained the status.

Comparability—Similar questions on citizenship were asked in the censuses of 1820, 1830, 1870, 1890 through 1950, 1970, and 1980. The 1980 question was asked of a sample of the foreign-born population. In 1990, both native and foreign-born persons who received the long-form questionnaire were asked to respond to the citizenship question.

EDUCATIONAL ATTAINMENT

Data on educational attainment were derived from answers to questionnaire item 12, which was asked of a sample of persons. Data are tabulated as attainment for persons 15 years old and over. Persons are classified according to the highest level of school completed or the highest degree received. The question included instructions to report the level of the previous grade attended or the highest degree received for persons currently enrolled in school. The question included response categories which allowed persons to report completing the 12th grade without receiving a high school diploma, and which instructed respondents to report as "high school graduate(s)"—persons who received either a high school diploma or the equivalent, for example, passed the Test of General Educational Development (G.E.D.), and did not attend college. (On the Military Census Report questionnaire, the lowest response category was "Less than 9th grade.")

Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that schooling completed in foreign or ungraded school systems should be reported as the equivalent level of schooling in the regular American system; that vocational certificates or diplomas from vocational, trade, or business schools or colleges were not to be reported unless they were college level degrees; and that honorary degrees were not to be reported. The instructions gave "medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology" as examples of professional school degrees, and specifically excluded "barber school, cosmetology, or other training for a specific trade" from the professional school category. The order in which they were listed suggested that doctorate degrees were "higher" than professional school degrees, which were "higher" than master's degrees.

Persons who did not report educational attainment were assigned the attainment of a person of the same age, race or Spanish origin, and sex who resided in the same or a nearby area. Persons who filled more than one circle were edited to the highest level or degree reported.

High School Graduate or Higher—Includes persons whose highest degree was a high school diploma or

its equivalent, persons who attended college or professional school, and persons who received a college, university, or professional degree. Persons who reported completing the 12th grade but not receiving a diploma are not included.

Not Enrolled, Not High School Graduate—Includes persons of compulsory school attendance age or above who were not enrolled in school and were not high school graduates; these persons may be taken to be “high school dropouts.” There is no restriction on when they “dropped out” of school, and they may have never attended high school.

In prior censuses, “Median school years completed” was used as a summary measure of educational attainment. In 1990, the median can only be calculated for groups of which less than half the members have attended college. “Percent high school graduate or higher” and “Percent bachelor’s degree or higher” are summary measures which can be calculated from the present data and offer quite readily interpretable measures of differences between population subgroups. To make comparisons over time, “Percent high school graduate or higher” can be calculated and “Percent bachelor’s degree or higher” can be approximated with data from previous censuses.

Comparability—From 1840 to 1930, the census measured educational attainment by means of a basic literacy question. In 1940, a single question was asked on highest grade of school completed. In the censuses of 1950 through 1980, a two-part question asking highest grade of school attended and whether that grade was finished was used to construct highest grade or year of school completed. For persons who have not attended college, the response categories in the 1990 educational attainment question should produce data which are comparable to data on highest grade completed from earlier censuses.

The response categories for persons who have attended college were modified from earlier censuses because there was some ambiguity in interpreting responses in terms of the number of years of college completed. For instance, it was not clear whether “completed the fourth year of college,” “completed the senior year of college,” and “college graduate” were synonymous. Research conducted shortly before the census suggests that these terms were more distinct in 1990 than in earlier decades, and this change may have threatened the ability to estimate the number of “college graduates” from the number of persons reported as having completed the fourth or a higher year of college. It was even more difficult to make inferences about post-baccalaureate degrees and “Associate” degrees from highest year of college completed. Thus, comparisons of post-secondary educational attainment in this and earlier censuses should be made with great caution.

In the 1960 and subsequent censuses, persons for whom educational attainment was not reported were assigned the same attainment level as a similar person whose

residence was in the same or a nearby area. In the 1940 and 1950 censuses, persons for whom educational attainment was not reported were not allocated.

EMPLOYMENT STATUS

The data on employment status were derived from answers to questionnaire items 21, 25, and 26, which were asked of a sample of persons. The series of questions on employment status was asked of all persons 15 years old and over and was designed to identify, in this sequence: (1) persons who worked at any time during the reference week; (2) persons who did not work during the reference week but who had jobs or businesses from which they were temporarily absent (excluding layoff); (3) persons on layoff; and (4) persons who did not work during the reference week, but who were looking for work during the last four weeks and were available for work during the reference week. (For more information, see the discussion under “Reference Week.”)

The employment status data shown in this and other 1990 census tabulations relate to persons 16 years old and over. Some tabulations showing employment status, however, include persons 15 years old. By definition, these persons are classified as “Not in Labor Force.” In the 1940, 1950, and 1960 censuses, employment status data were presented for persons 14 years old and over. The change in the universe was made in 1970 to agree with the official measurement of the labor force as revised in January 1967 by the U.S. Department of Labor. The 1970 census was the last to show employment data for persons 14 and 15 years old.

Employed—All civilians 16 years old and over who were either (1) “at work”—those who did any work at all during the reference week as paid employees, worked in their own business or profession, worked on their own farm, or worked 15 hours or more as unpaid workers on a family farm or in a family business; or (2) were “with a job but not at work”—those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or unpaid volunteer work for religious, charitable, and similar organizations; also excluded are persons on active duty in the United States Armed Forces.

Unemployed—All civilians 16 years old and over are classified as unemployed if they (1) were neither “at work” nor “with a job but not at work” during the reference week, and (2) were looking for work during the last 4 weeks, and (3) were available to accept a job. Also included as unemployed are civilians who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off. Examples of job seeking activities are:

- Registering at a public or private employment office
- Meeting with prospective employers
- Investigating possibilities for starting a professional practice or opening a business
- Placing or answering advertisements
- Writing letters of application
- Being on a union or professional register

Civilian Labor Force—Consists of persons classified as employed or unemployed in accordance with the criteria described above.

Experienced Unemployed—These are unemployed persons who have worked at any time in the past.

Experienced Civilian Labor Force—Consists of the employed and the experienced unemployed.

Labor Force—All persons classified in the civilian labor force plus members of the U.S. Armed Forces (persons on active duty with the United States Army, Air Force, Navy, Marine Corps, or Coast Guard).

Not in Labor Force—All persons 16 years old and over who are not classified as members of the labor force. This category consists mainly of students, housewives, retired workers, seasonal workers enumerated in an *off* season who were not looking for work, institutionalized persons, and persons doing only incidental unpaid family work (less than 15 hours during the reference week).

Worker—This term appears in connection with several subjects: journey-to-work items, class of worker, weeks worked in 1989, and number of workers in family in 1989. Its meaning varies and, therefore, should be determined in each case by referring to the definition of the subject in which it appears.

Actual Hours Worked Last Week—All persons who reported working during the reference week were asked to report in questionnaire item 21b the number of hours that they worked. The statistics on hours worked pertain to the number of hours actually worked at all jobs, and do not necessarily reflect the number of hours typically or usually worked or the scheduled number of hours. The concept of "actual hours" differs from that of "usual hours" described below. The number of persons who worked only a small number of hours is probably understated since such persons sometimes consider themselves as not working. Respondents were asked to include overtime or extra hours worked, but to exclude lunch hours, sick leave, and vacation leave.

Limitation of the Data—The census may understate the number of employed persons because persons who have irregular, casual, or unstructured jobs sometimes report themselves as not working. The number of employed persons "at work" is probably overstated in the census (and conversely, the number of employed "with a job, but not at work" is understated) since some persons on vacation or sick leave erroneously reported themselves as working. This problem has no effect on the total number of employed persons. The reference week for the employment data is not the same for all persons. Since persons can change their employment status from one week to another, the lack of a uniform reference week may mean that the employment data do not reflect the reality of the employment situation of any given week. (For more information, see the discussion under "Reference Week.")

Comparability—The questionnaire items and employment status concepts for the 1990 census are essentially the same as those used in the 1980 and 1970 censuses. However, these concepts differ in many respects from those associated with the 1950 and 1960 censuses.

Since employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, some tabulations may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

An additional difference in the data arises from the fact that persons who had a job but were not at work are included with the employed in the census statistics, whereas many of these persons are likely to be excluded from employment figures based on establishment payroll reports. Furthermore, the employment status data in census tabulations include persons on the basis of place of residence regardless of where they work, whereas establishment data report persons at their place of work regardless of where they live. This latter consideration is particularly significant when comparing data for workers who commute between areas.

Census data on actual hours worked during the reference week may differ from data from other sources. The census measures hours actually worked, whereas some surveys measure hours paid for by employers. Comparability of census actual hours worked data may also be affected by the nature of the reference week (see "Reference Week").

For several reasons, the unemployment figures of the Census Bureau are not comparable with published figures on unemployment compensation claims. For example,

figures on unemployment compensation claims exclude persons who have exhausted their benefit rights, new workers who have not earned rights to unemployment insurance, and persons losing jobs not covered by unemployment insurance systems (including some workers in agriculture, domestic services, and religious organizations, and self-employed and unpaid family workers). In addition, the qualifications for drawing unemployment compensation differ from the definition of unemployment used by the Census Bureau. Persons working only a few hours during the week and persons with a job but not at work are sometimes eligible for unemployment compensation but are classified as "Employed" in the census. Differences in the geographical distribution of unemployment data arise because the place where claims are filed may not necessarily be the same as the place of residence of the unemployed worker.

The figures on employment status from the decennial census are generally comparable with similar data collected in the Current Population Survey. However, some difference may exist because of variations in enumeration and processing techniques.

FERTILITY

The data on fertility (also referred to as "children ever born") were derived from answers to questionnaire item 20, which was asked of a sample of women 15 years old and over regardless of marital status. Stillbirths, stepchildren, and adopted children were excluded from the number of children ever born. Ever-married women were instructed to include all children born to them before and during their most recent marriage, children no longer living, and children away from home, as well as children who were still living in the home. Never-married women were instructed to include all children born to them.

Data are most frequently presented in terms of the aggregate number of children ever born to women in the specified category and in terms of the rate per 1,000 women. For purposes of calculating the aggregate, the open-ended response category, "12 or more" is assigned a value of 13.

Limitation of the Data—Although the data are assumed to be less complete for out-of-wedlock births than for births occurring within marriage, comparisons of 1980 census data on the fertility of single women with other census sources and administrative records indicate that no significant differences were found between different data sources; that is, 1980 census data on children ever born to single women were complete with no significant understatements of childbearing.

Comparability—The wording of the question on children ever born was the same in 1990 as in 1980. In 1970, however, the question on children ever born was asked of all ever-married women but only of never-married women

who received self-administered questionnaires. Therefore, rates and numbers of children ever born to single women in 1970 may be understated. Data presented for children ever born to ever-married women are comparable for the 1990 census and all previous censuses containing this question.

GROUP QUARTERS

All persons not living in households are classified by the Census Bureau as living in group quarters. Two general categories of persons in group quarters are recognized: (1) institutionalized persons and (2) other persons in group quarters (also referred to as "noninstitutional group quarters").

Institutionalized Persons—Includes persons under formally authorized, supervised care or custody in institutions at the time of enumeration. Such persons are classified as "patients or inmates" of an institution regardless of the availability of nursing or medical care, the length of stay, or the number of persons in the institution. Generally, institutionalized persons are restricted to the institutional buildings and grounds (or must have passes or escorts to leave) and thus have limited interaction with the surrounding community. Also, they are generally under the care of trained staff who have responsibility for their safekeeping and supervision.

Type of Institution—The type of institution was determined as part of census enumeration activities. For institutions which specialize in only one specific type of service, all patients or inmates were given the same classification. For institutions which had multiple types of major services (usually general hospitals and Veterans' Administration hospitals), patients were classified according to selected types of wards. For example, in psychiatric wards of hospitals, patients were classified in "mental (psychiatric) hospitals"; in hospital wards for persons with chronic diseases, patients were classified in "hospitals for the chronically ill." Each patient or inmate was classified in only one type of institution. Institutions include the following types:

Correctional Institutions—Includes prisons, Federal detention centers, military stockades and jails, police lockups, halfway houses, local jails, and other confinement facilities, including work farms.

Prisons—Where persons convicted of crimes serve their sentences. In some census products, the prisons are classified by two types of control: (1) "Federal" (operated by the Bureau of Prisons of the Department of Justice) and (2) "State." Residents who are criminally insane were classified on the basis of where they resided at the time of enumeration: (1) in institutions (or hospital wards)

operated by departments of correction or similar agencies; or (2) in institutions operated by departments of mental health or similar agencies.

Federal Detention Centers—Operated by the Immigration and Naturalization Service (INS) and the Bureau of Prisons. These facilities include detention centers used by the Park Police; Bureau of Indian Affairs Detention Centers; INS Centers, such as the INS Federal Alien Detention Facility; INS Processing Centers; and INS Contract Detention Centers used to detain aliens under exclusion or deportation proceedings, as well as those aliens who have not been placed into proceedings, such as custodial required departures; and INS Detention Centers operated within local jails, and State and Federal prisons.

Military Stockades, Jails—Operated by military police and used to hold persons awaiting trial or convicted of violating military laws.

Local Jails and Other Confinement Facilities—Includes facilities operated by counties and cities that primarily hold persons beyond arraignment, usually for more than 48 hours. Also included in this category are work farms used to hold persons awaiting trial or serving time on relatively short sentences and jails run by private businesses under contract for local governments (but *not* by State governments).

Police Lockups—Temporary-holding facilities operated by county and city police that hold persons for 48 hours or less only if they have not been formally charged in court.

Halfway Houses—Operated for correctional purposes and include probation and restitution centers, pre-release centers, and community-residential centers.

Other Types of Correctional Institutions—Privately operated correctional facilities and correctional facilities specifically for alcohol/drug abuse.

Nursing Homes—Comprises a heterogeneous group of places. The majority of patients are elderly, although persons who require nursing care because of chronic physical conditions may be found in these homes regardless of their age. Included in this category are skilled-nursing facilities, intermediate-care facilities, long-term care rooms in wards or buildings on the grounds of hospitals, or long-term care rooms/nursing wings in congregate housing facilities. Also included are nursing, convalescent, and rest homes, such as soldiers', sailors', veterans', and fraternal or religious homes for the aged, with or without nursing care. In some census products, nursing homes are classified by type of ownership as "Federal," "State," "Private not-for-profit," and "Private for profit."

Mental (Psychiatric) Hospitals—Includes hospitals or wards for the criminally insane not operated by a prison, and psychiatric wards of general hospitals and veterans' hospitals. Patients receive supervised medical/nursing care from formally-trained staff. In some census products, mental hospitals are classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Hospitals for Chronically Ill—Includes hospitals for patients who require long-term care, including those in military hospitals and wards for the chronically ill located on military bases; or other hospitals or wards for the chronically ill, which include tuberculosis hospitals or wards, wards in general and Veterans' Administration hospitals for the chronically ill, neurological wards, hospices, wards for patients with Hansen's Disease (leprosy) and other incurable diseases, and other unspecified wards for the chronically ill. Patients who had no usual home elsewhere were enumerated as part of the institutional population in the wards of general and military hospitals. Most hospital patients are at the hospital temporarily and were enumerated at their usual place of residence. (For more information, see "Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere.")

Schools, Hospitals, or Wards for the Mentally Retarded—Includes those institutions such as wards in hospitals for the mentally retarded, and intermediate-care facilities for the mentally retarded that provide supervised medical/nursing care from formally-trained staff. In some census products, this category is classified by type of ownership as "Federal," "State or local," "Private," and "Ownership not known."

Schools, Hospitals, or Wards for the Physically Handicapped—Includes three types of institutions: institutions for the blind, those for the deaf, and orthopedic wards and institutions for the physically handicapped. Institutions for persons with speech problems are classified with "institutions for the deaf." The category "orthopedic wards and institutions for the physically handicapped" includes those institutions providing relatively long-term care to accident victims, and to persons with polio, cerebral palsy, and muscular dystrophy. In some census products, this category is classified by type of ownership as "Public," "Private," and "Ownership not known."

Hospitals, and Wards for Drug/Alcohol Abuse—Includes hospitals, and hospital wards in psychiatric and general hospitals. These facilities are equipped medically and designed for the diagnosis and treatment of medical or psychiatric illnesses associated with alcohol or drug abuse. Patients receive supervised medical care from formally-trained staff.

Wards in General and Military Hospitals for Patients Who Have No Usual Home Elsewhere—Includes maternity, neonatal, pediatric (including wards for boarder babies), military, and surgical wards of hospitals, and wards for persons with infectious diseases.

Juvenile Institutions—Includes homes, schools, and other institutions providing care for children (short- or long-term care). Juvenile institutions include the following types:

Homes for Abused, Dependent, and Neglected Children—Includes orphanages and other institutions which provide long-term care (usually more than 30 days) for children. This category is classified in some census products by type of ownership as “Public” and “Private.”

Residential Treatment Centers—Includes those institutions which primarily serve children who, by clinical diagnosis, are moderately or seriously disturbed emotionally. Also, these institutions provide long-term treatment services, usually supervised or directed by a psychiatrist.

Training Schools for Juvenile Delinquents—Includes residential training schools or homes, and industrial schools, camps, or farms for juvenile delinquents.

Public Training Schools for Juvenile Delinquents—Usually operated by a State agency (for example, department of welfare, corrections, or a youth authority). Some are operated by county and city governments. These public training schools are specialized institutions serving delinquent children, generally between the ages of 10 and 17 years old, all of whom are committed by the courts.

Private Training Schools—Operated under private auspices. Some of the children they serve are committed by the courts as delinquents. Others are referred by parents or social agencies because of delinquent behavior. One difference between private and public training schools is that, by their administrative policy, private schools have control over their selection and intake.

Detention Centers—Includes institutions providing short-term care (usually 30 days or less) primarily for delinquent children pending disposition of their cases by a court. This category also covers diagnostic centers. In practice, such institutions may be caring for both delinquent and neglected children pending court disposition.

Other Persons in Group Quarters (also referred to as “noninstitutional group quarters”)—Includes all persons who live in group quarters other than institutions. Persons who live in the following living quarters are

classified as “other persons in group quarters” when there are 10 or more unrelated persons living in the unit; otherwise, these living quarters are classified as housing units.

Rooming Houses—Includes persons residing in rooming and boarding houses and living in quarters with 10 or more unrelated persons.

Group Homes—Includes “community-based homes” that provide care and supportive services. Such places include homes for the mentally ill, mentally retarded, and physically handicapped; drug/alcohol halfway houses; communes; and maternity homes for unwed mothers.

Homes for the Mentally Ill—Includes community-based homes that provide care primarily for the mentally ill. In some data products, this category is classified by type of ownership as “Federal,” “State,” “Private,” and “Ownership not known.” Homes which combine treatment of the physically handicapped with treatment of the mentally ill are counted as homes for the mentally ill.

Homes for the Mentally Retarded—Includes community-based homes that provide care primarily for the mentally retarded. Homes which combine treatment of the physically handicapped with treatment of the mentally retarded are counted as homes for the mentally retarded. This category is classified by type of ownership in some census products, as “Federal,” “State,” “Private,” or “Ownership not known.”

Homes for the Physically Handicapped—Includes community-based homes for the blind, for the deaf, and other community-based homes for the physically handicapped. Persons with speech problems are classified with homes for the deaf. In some census products, this category is classified by type of ownership as “Public,” “Private,” or “Ownership not known.”

Homes or Halfway Houses for Drug/Alcohol Abuse—Includes persons with no usual home elsewhere in places that provide community-based care and supportive services to persons suffering from a drug/alcohol addiction and to recovering alcoholics and drug abusers. Places providing community-based care for drug and alcohol abusers include group homes, detoxification centers, quarterway houses (residential treatment facilities that work closely with accredited hospitals), halfway houses, and recovery homes for ambulatory, mentally competent recovering alcoholics and drug abusers who may be re-entering the work force.

Maternity Homes for Unwed Mothers—Includes persons with no usual home elsewhere in places that provide domestic care for unwed mothers and their

children. These homes may provide social services and post-natal care within the facility, or may make arrangements for women to receive such services in the community. Nursing services are usually available in the facility.

Other Group Homes—Includes persons with no usual home elsewhere in communes, foster care homes, and job corps centers with 10 or more unrelated persons. These types of places provide communal living quarters, generally for persons who have formed their own community in which they have common interests and often share or own property jointly.

Religious Group Quarters—Includes, primarily, group quarters for nuns teaching in parochial schools and for priests living in rectories. It also includes other convents and monasteries, except those associated with a general hospital or an institution.

College Quarters Off Campus—Includes privately-owned rooming and boarding houses off campus, if the place is reserved exclusively for occupancy by college students and if there are 10 or more unrelated persons. In census products, persons in this category are classified as living in a college dormitory.

Persons residing in certain other types of living arrangements are classified as living in "noninstitutional group quarters" regardless of the number of people sharing the unit. These include persons residing in the following types of group quarters:

College Dormitories—Includes college students in dormitories (provided the dormitory is restricted to students who do not have their families living with them), fraternity and sorority houses, and on-campus residential quarters used exclusively for those in religious orders who are attending college. Students in privately-owned rooming and boarding houses off campus are also included, if the place is reserved exclusively for occupancy by college-level students and if there are 10 or more unrelated persons.

Military Quarters—Includes military personnel living in barracks and dormitories on base, in transient quarters on base for temporary residents (both civilian and military), and on military ships. However, patients in military hospitals receiving treatment for chronic diseases or who had no usual home elsewhere, and persons being held in military stockades were included as part of the institutional population.

Agriculture Workers' Dormitories—Includes persons in migratory farm workers' camps on farms, bunkhouses for ranch hands, and other dormitories on farms, such as those on "tree farms."

Other Workers' Dormitories—Includes persons in logging camps, construction workers' camps, firehouse dormitories, job-training camps, energy enclaves (Alaska only), and nonfarm migratory workers' camps (for example, workers in mineral and mining camps).

Emergency Shelters for Homeless Persons (with sleeping facilities) and Visible in Street Locations—Includes persons enumerated during the "Shelter-and-Street-Night" operation primarily on March 20-21, 1990. Enumerators were instructed not to ask if a person was "homeless." If a person was at one of the locations below on March 20-21, the person was counted as described below. (For more information on the "Shelter-and-Street-Night" operation, see Appendix D, Collection and Processing Procedures.) This category is divided into four classifications:

Emergency Shelters for Homeless Persons (with sleeping facilities)—Includes persons who stayed overnight on March 20, 1990, in permanent and temporary emergency housing, missions, hotels/motels, and flophouses charging \$12 or less (excluding taxes) per night; Salvation Army shelters, hotels, and motels used *entirely* for homeless persons regardless of the nightly rate charged; rooms in hotels and motels used *partially* for the homeless; and similar places known to have persons who have no usual home elsewhere staying overnight. If not shown separately, shelters and group homes that provide *temporary* sleeping facilities for runaway, neglected, and homeless children are included in this category in data products.

Shelters for Runaway, Neglected, and Homeless Children—Includes shelters/group homes which provide *temporary* sleeping facilities for juveniles.

Visible in Street Locations—Includes street blocks and open public locations designated before March 20, 1990, by city and community officials as places where the homeless congregate at night. *All* persons found at predesignated street sites from 2 a.m. to 4 a.m. and leaving abandoned or boarded-up buildings from 4 a.m. to 8 a.m. on March 21, 1990, were enumerated during "street" enumeration, except persons in uniform such as police and persons engaged in obvious money-making activities other than begging or panhandling. Enumerators were instructed not to ask if a person was "homeless."

This cannot be considered a complete count of all persons living on the streets because those who were so well hidden that local people did not know where to find them were likely to have been missed as were persons moving about or in places not identified by local officials. It is also possible that persons with homes could have been included in the count of "visible in street locations" if they were present when the enumerator did the enumeration of a particular block.

Predesignated street sites include street corners, parks, bridges, persons emerging from abandoned and boarded-up buildings, noncommercial campsites (tent cities), all-night movie theaters, all-night restaurants, emergency hospital waiting rooms, train stations, airports, bus depots, and subway stations.

Shelters for Abused Women (Shelters Against Domestic Violence or Family Crisis Centers)—Includes community-based homes or shelters that provide domiciliary care for women who have sought shelter from family violence and who may have been physically abused. Most shelters also provide care for children of abused women. These shelters may provide social services, meals, psychiatric treatment, and counseling. In some census products, “shelters for abused women” are included in the category “other noninstitutional group quarters.”

Dormitories for Nurses and Interns in General and Military Hospitals—Includes group quarters for nurses and other staff members. It excludes patients.

Crews of Maritime Vessels—Includes officers, crew members, and passengers of maritime U.S. flag vessels. All ocean-going and Great Lakes ships are included.

Staff Residents of Institutions—Includes staff residing in group quarters on institutional grounds who provide formally-authorized, supervised care or custody for the institutionalized population.

Other Nonhousehold Living Situations—Includes persons with no usual home elsewhere enumerated during transient or “T-Night” enumeration at YMCA’s, YWCA’s, youth hostels, commercial and government-run campgrounds, campgrounds at racetracks, fairs, and carnivals, and similar transient sites.

Living Quarters for Victims of Natural Disasters—Includes living quarters for persons temporarily displaced by natural disasters.

Limitation of the Data—Two types of errors can occur in the classification of “types of group quarters”:

1. *Misclassification of Group Quarters*—During the 1990 Special Place Prelist operation, the enumerator determined the type of group quarters associated with each special place in their assignment. The enumerator used the Alphabetical Group Quarters Code List and Index to the Alphabetical Group Quarters Code List to assign a two-digit code number followed by either an “I,” for institutional, or an “N,” for noninstitutional to each group quarters. In 1990, unacceptable group quarter codes were edited. (For more information on editing of unacceptable data, see Appendix C, Accuracy of the Data.)

2. *No Classification (unknowns)*—The imputation rate for type of institution was higher in 1980 (23.5 percent) than in 1970 (3.3 percent). Improvements were made to the 1990 Alphabetical Group Quarters Code List; that is, the inclusion of more group quarters categories and an “Index to the Alphabetical Group Quarters Code List.” (For more information on the allocation rates for Type of Institution, see the allocation rates in 1990 CP-1, *General Population Characteristics*.)

In previous censuses, allocation rates for demographic characteristics (such as age, sex, race, and marital status) of the institutional population were similar to those for the total population. The allocation rates for sample characteristics such as school enrollment, highest grade completed, income, and veteran status for the institutional and noninstitutional group quarters population have been substantially higher than the population in households at least as far back as the 1960 census. The data, however, have historically presented a reasonable picture of the institutional and noninstitutional group quarters population.

Shelter and Street Night (S-Night)—For the 1990 census “Shelter-and-Street-Night” operation, persons well hidden, moving about, or in locations enumerators did not visit were likely to be missed. The number of people missed will never be known; thus, the 1990 census cannot be considered to include a definitive count of America’s total homeless population. It does, however, give an idea of relative differences among areas of the country. Other components were counted as part of regular census procedures.

The count of persons in shelters and visible on the street could have been affected by many factors. How much the factors affected the count can never be answered definitively, but some elements include:

1. How well enumerators were trained and how well they followed procedures.
2. How well the list of shelter and street locations given to the Census Bureau by the local government reflected the actual places that homeless persons stay at night.
3. Cities were encouraged to open temporary shelters for census night, and many did that and actively encouraged people to enter the shelters. Thus, people who may have been on the street otherwise were in shelters the night of March 20, so that the ratio of shelter-to-street population could be different than usual.
4. The weather, which was unusually cold in some parts of the country, could affect how likely people were to seek emergency shelter or to be more hidden than usual if they stayed outdoors.
5. The media occasionally interfered with the ability to do the count.
6. How homeless people perceived the census and whether they wanted to be counted or feared the census and hid from it.

The Census Bureau conducted two assessments of Shelter and Street Night: (1) the quality of the lists of shelters used for the Shelter-and-Street-Night operation, and (2) how well procedures were followed by census-takers for the street count in parts of five cities (Chicago, Los Angeles, New Orleans, New York, and Phoenix). Information about these two assessments is available from the Chief, Center for Survey Methods Research, Bureau of the Census, Washington, DC 20233.

Comparability—For the 1990 census, the definition of institutionalized persons was revised so that the definition of “care” only includes persons under organized medical or formally-authorized, supervised care or custody. As a result of this change to the institutional definition, maternity homes are classified as noninstitutional rather than institutional group quarters as in previous censuses. The following types of other group quarters are classified as institutional rather than noninstitutional group quarters: “halfway houses (operated for correctional purposes)” and “wards in general and military hospitals for patients who have no usual home elsewhere,” which includes maternity, neonatal, pediatric, military, and surgical wards of hospitals, other-purpose wards of hospitals, and wards for infectious diseases. These changes should not significantly affect the comparability of data with earlier censuses because of the relatively small number of persons involved.

As in 1980, 10 or more unrelated persons living together were classified as living in noninstitutional group quarters. In 1970, the criteria was six or more unrelated persons.

Several changes also have occurred in the identification of specific types of group quarters. For the first time, the 1990 census identifies separately the following types of correctional institutions: persons in halfway houses (operated for correctional purposes), military stockades and jails, and police lockups. In 1990, tuberculosis hospitals or wards are included with hospitals for the chronically ill; in 1980, they were shown separately. For 1990, the noninstitutional group quarters category, “Group homes” is further classified as: group homes for drug/alcohol abuse; maternity homes (for unwed mothers), group homes for the mentally ill, group homes for the mentally retarded, and group homes for the physically handicapped. Persons living in communes, foster-care homes, and job corps centers are classified with “Other group homes” only if 10 or more unrelated persons share the unit; otherwise, they are classified as housing units.

In 1990, workers’ dormitories were classified as group quarters regardless of the number of persons sharing the dorm. In 1980, 10 or more unrelated persons had to share the dorm for it to be classified as a group quarters. In 1960, data on persons in military barracks were shown only for men. In subsequent censuses, they include both men and women.

In 1990 census data products, the phrase “inmates of institutions” was changed to “institutionalized persons.” Also, persons living in noninstitutional group quarters were

referred to as “other persons in group quarters,” and the phrase “staff residents” was used for staff living in institutions.

In 1990, there are additional institutional categories and noninstitutional group quarters categories compared with the 1980 census. The institutional categories added include “hospitals and wards for drug/alcohol abuse” and “military hospitals for the chronically ill.” The noninstitutional group quarters categories added include emergency shelters for homeless persons; shelters for runaway, neglected, and homeless children; shelters for abused women; and visible-in-street locations. Each of these noninstitutional group quarters categories was enumerated on March 20-21, 1990, during the “Shelter-and-Street-Night” operation. (For more information on the “Shelter-and-Street-Night” operation, see Appendix D, Collection and Processing Procedures.)

HISPANIC ORIGIN

The data on Spanish/Hispanic origin were derived from answers to questionnaire item 7, which was asked of all persons. Persons of Hispanic origin are those who classified themselves in one of the specific Hispanic origin categories listed on the questionnaire—“Mexican,” “Puerto Rican,” or “Cuban”—as well as those who indicated that they were of “other Spanish/Hispanic” origin. Persons of “Other Spanish/Hispanic” origin are those whose origins are from Spain, the Spanish-speaking countries of Central or South America, or the Dominican Republic, or they are persons of Hispanic origin identifying themselves generally as Spanish, Spanish-American, Hispanic, Hispano, Latino, and so on. Write-in responses to the “other Spanish/Hispanic” category were coded only for sample data.

Origin can be viewed as the ancestry, nationality group, lineage, or country of birth of the person or the person’s parents or ancestors before their arrival in the United States. Persons of Hispanic origin may be of any race.

Some tabulations are shown by the Hispanic origin of the householder. In all cases where households, families, or occupied housing units are classified by Hispanic origin, the Hispanic origin of the householder is used. (See the discussion of householder under “Household Type and Relationship.”)

During direct interviews conducted by enumerators, if a person could not provide a single origin response, he or she was asked to select, based on self-identification, the group which best described his or her origin or descent. If a person could not provide a single group, the origin of the person’s mother was used. If a single group could not be provided for the person’s mother, the first origin reported by the person was used.

If any household member failed to respond to the Spanish/Hispanic origin question, a response was assigned by the computer according to the reported entries of other household members by using specific rules of precedence of household relationship. In the processing of sample

questionnaires, responses to other questions on the questionnaire, such as ancestry and place of birth, were used to assign an origin before any reference was made to the origin reported by other household members. If an origin was not entered for any household member, an origin was assigned from another household according to the race of the householder. This procedure is a variation of the general imputation process described in Appendix C, Accuracy of the Data.

Comparability—There may be differences between the total Hispanic origin population based on 100-percent tabulations and sample tabulations. Such differences are the result of sampling variability, nonsampling error, and more extensive edit procedures for the Spanish/Hispanic origin item on the sample questionnaires. (For more information on sampling variability and nonsampling error, see Appendix C, Accuracy of the Data.)

The 1990 data on Hispanic origin are generally comparable with those for the 1980 census. However, there are some differences in the format of the Hispanic origin question between the two censuses. For 1990, the word “descent” was deleted from the 1980 wording. In addition, the term “Mexican-Amer.” used in 1980 was shortened further to “Mexican-Am.” to reduce misreporting (of “American”) in this category detected in the 1980 census. Finally, the 1990 question allowed those who reported as “other Spanish/Hispanic” to write in their specific Hispanic origin group.

Misreporting in the “Mexican-Amer.” category of the 1980 census item on Spanish/Hispanic origin may affect the comparability of 1980 and 1990 census data for persons of Hispanic origin for certain areas of the country. An evaluation of the 1980 census item on Spanish/Hispanic origin indicated that there was misreporting in the Mexican origin category by White and Black persons in certain areas. The study results showed evidence that the misreporting occurred in the South (excluding Texas), the Northeast (excluding the New York City area), and a few States in the Midwest Region. Also, results based on available data suggest that the impact of possible misreporting of Mexican origin in the 1980 census was severe in those portions of the above-mentioned regions where the Hispanic origin population was generally sparse. However, national 1980 census data on the Mexican origin population or total Hispanic origin population at the national level was not seriously affected by the reporting problem. (For a more detailed discussion of the evaluation of the 1980 census Spanish/Hispanic origin item, see the 1980 census Supplementary Reports.)

The 1990 and 1980 census data on the Hispanic population are not directly comparable with 1970 Spanish origin data because of a number of factors: (1) overall improvements in the 1980 and 1990 censuses, (2) better coverage of the population, (3) improved question designs, and (4) an effective public relations campaign by the Census Bureau with the assistance of national and community ethnic groups.

Specific changes in question design between the 1980 and 1970 censuses included the placement of the category “No, not Spanish/Hispanic” as the first category in that question. (The corresponding category appeared last in the 1970 question.) Also, the 1970 category “Central or South American” was deleted because in 1970 some respondents misinterpreted the category; furthermore, the designations “Mexican-American” and “Chicano” were added to the Spanish/Hispanic origin question in 1980. In the 1970 census, the question on Spanish origin was asked of only a 5-percent sample of the population.

HOUSEHOLD TYPE AND RELATIONSHIP

Household

A household includes all the persons who occupy a housing unit. A housing unit is a house, an apartment, a mobile home, a group of rooms, or a single room that is occupied (or if vacant, is intended for occupancy) as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from the outside of the building or through a common hall. The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements.

In 100-percent tabulations, the count of households or householders always equals the count of occupied housing units. In sample tabulations, the numbers may differ as a result of the weighting process.

Persons Per Household—A measure obtained by dividing the number of persons in households by the number of households (or householders). In cases where persons in households are cross-classified by race or Hispanic origin, persons in the household are classified by the race or Hispanic origin of the householder rather than the race or Hispanic origin of each individual.

Relationship to Householder

Householder—The data on relationship to householder were derived from answers to questionnaire item 2, which was asked of all persons in housing units. One person in each household is designated as the householder. In most cases, this is the person, or one of the persons, in whose name the home is owned, being bought, or rented and who is listed in column 1 of the census questionnaire. If there is no such person in the household, any adult household member 15 years old and over could be designated as the householder.

Households are classified by type according to the sex of the householder and the presence of relatives. Two types of householders are distinguished: a family householder and a nonfamily householder. A family householder

is a householder living with one or more persons related to him or her by birth, marriage, or adoption. The householder and all persons in the household related to him or her are family members. A nonfamily householder is a householder living alone or with nonrelatives only.

Spouse—Includes a person married to and living with a householder. This category includes persons in formal marriages, as well as persons in common-law marriages.

The number of spouses is equal to the number of “married-couple families” or “married-couple households” in 100-percent tabulations. The number of spouses, however, is generally less than half of the number of “married persons with spouse present” in sample tabulations, since more than one married couple can live in a household, but only spouses of householders are specifically identified as “spouse.” For sample tabulations, the number of “married persons with spouse present” includes married-couple subfamilies and married-couple families.

Child—Includes a son or daughter by birth, a stepchild, or adopted child of the householder, regardless of the child’s age or marital status. The category excludes sons-in-law, daughters-in-law, and foster children.

Natural-Born or Adopted Son/Daughter—A son or daughter of the householder by birth, regardless of the age of the child. Also, this category includes sons or daughters of the householder by legal adoption, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Stepson/Stepdaughter—A son or daughter of the householder through marriage but not by birth, regardless of the age of the child. If the stepson/stepdaughter of the householder has been legally adopted by the householder, the child is still classified as a stepchild.

Own Child—A never-married child under 18 years who is a son or daughter by birth, a stepchild, or an adopted child of the householder. In certain tabulations, own children are further classified as living with two parents or with one parent only. Own children of the householder living with two parents are by definition found only in married-couple families.

In a subfamily, an “own child” is a never-married child under 18 years of age who is a son, daughter, stepchild, or an adopted child of a mother in a mother-child subfamily, a father in a father-child subfamily, or either spouse in a married-couple subfamily.

“Related children” in a family include own children and all other persons under 18 years of age in the household, regardless of marital status, who are related to the householder, except the spouse of the householder. Foster children are not included since they are not related to the householder.

Other Relatives—In tabulations, includes any household member related to the householder by birth, marriage, or adoption, but not included specifically in another relationship category. In certain detailed tabulations, the following categories may be shown:

Grandchild—The grandson or granddaughter of the householder.

Brother/Sister—The brother or sister of the householder, including stepbrothers, stepsisters, and brothers and sisters by adoption. Brothers-in-law and sisters-in-law are included in the “Other relative” category on the questionnaire.

Parent—The father or mother of the householder, including a stepparent or adoptive parent. Fathers-in-law and mothers-in-law are included in the “Other relative” category on the questionnaire.

Other Relatives—Anyone not listed in a reported category above who is related to the householder by birth, marriage, or adoption (brother-in-law, grandparent, nephew, aunt, mother-in-law, daughter-in-law, cousin, and so forth).

Nonrelatives—Includes any household member, including foster children not related to the householder by birth, marriage, or adoption. The following categories may be presented in more detailed tabulations:

Roomer, Boarder, or Foster Child—Roomer, boarder, lodger, and foster children or foster adults of the householder.

Housemate or Roommate—A person who is not related to the householder and who shares living quarters primarily in order to share expenses.

Unmarried Partner—A person who is not related to the householder, who shares living quarters, and who has a close personal relationship with the householder.

Other Nonrelatives—A person who is not related by birth, marriage, or adoption to the householder and who is not described by the categories given above.

When relationship is not reported for an individual, it is imputed according to the responses for age, sex, and marital status for that person while maintaining consistency with responses for other individuals in the household. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Unrelated Individual

An unrelated individual is: (1) a householder living alone or with nonrelatives only, (2) a household member who is not related to the householder, or (3) a person living in group quarters who is not an inmate of an institution.

Family Type

A family consists of a householder and one or more other persons living in the same household who are related to the householder by birth, marriage, or adoption. All persons in a household who are related to the householder are regarded as members of his or her family. A household can contain only one family for purposes of census tabulations. Not all households contain families since a household may comprise a group of unrelated persons or one person living alone.

Families are classified by type as either a "married-couple family" or "other family" according to the sex of the householder and the presence of relatives. The data on family type are based on answers to questions on sex and relationship which were asked on a 100-percent basis.

Married-Couple Family—A family in which the householder and his or her spouse are enumerated as members of the same household.

Other Family:

Male Householder, No Wife Present—A family with a male householder and no spouse of householder present.

Female Householder, No Husband Present—A family with a female householder and no spouse of householder present.

Persons Per Family—A measure obtained by dividing the number of persons in families by the total number of families (or family householders). In cases where the measure, "persons in family" or "persons per family" are cross-tabulated by race or Hispanic origin, the race or Hispanic origin refers to the householder rather than the race or Hispanic origin of each individual.

Subfamily

A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without never-married children under 18 years old, or one parent with one or more never-married children under 18 years old, living in a household and related to, but not including, either the householder or the householder's spouse. The number of subfamilies is not included in the count of families, since subfamily members are counted as part of the householder's family.

Subfamilies are defined during processing of sample data. In selected tabulations, subfamilies are further classified by type: married-couple subfamilies, with or without own children; mother-child subfamilies; and father-child subfamilies.

Lone parents include people maintaining either one-parent families or one-parent subfamilies. Married couples include husbands and wives in both married-couple families and married-couple subfamilies.

Unmarried-Partner Household

An unmarried-partner household is a household other than a "married-couple household" that includes a householder and an "unmarried partner." An "unmarried partner" can be of the same sex or of the opposite sex of the householder. An "unmarried partner" in an "unmarried-partner household" is an adult who is unrelated to the householder, but shares living quarters and has a close personal relationship with the householder.

Unmarried-Couple Household

An unmarried-couple household is composed of two unrelated adults of the opposite sex (one of whom is the householder) who share a housing unit with or without the presence of children under 15 years old.

Foster Children

Foster children are nonrelatives of the householder and are included in the category, "Roomer, boarder, or foster child" on the questionnaire. Foster children are identified as persons under 18 years old and living in households that have no nonrelatives 18 years old and over (who might be parents of the nonrelatives under 18 years old).

Stepfamily

A stepfamily is a "married-couple family" with at least one stepchild of the householder present, where the householder is the husband.

Comparability—The 1990 definition of a household is the same as that used in 1980. The 1980 relationship category "Son/daughter" has been replaced by two categories, "Natural-born or adopted son/daughter" and "Stepson/stepdaughter." "Grandchild" has been added as a separate category. The 1980 nonrelative categories: "Roomer, boarder" and "Partner, roommate" have been replaced by the categories "Roomer, boarder, or foster child," "Housemate, roommate," and "Unmarried partner." The 1980 nonrelative category "Paid employee" has been dropped.

INCOME IN 1989

The data on income in 1989 were derived from answers to questionnaire items 32 and 33. Information on money income received in the calendar year 1989 was requested from persons 15 years old and over. "Total income" is the algebraic sum of the amounts reported separately for wage or salary income; net nonfarm self-employment income; net farm self-employment income; interest, dividend, or net rental or royalty income; Social Security or railroad retirement income; public assistance or welfare income; retirement or disability income; and all other income. "Earnings" is defined as the algebraic sum of

wage or salary income and net income from farm and nonfarm self-employment. "Earnings" represent the amount of income received regularly before deductions for personal income taxes, Social Security, bond purchases, union dues, medicare deductions, etc.

Receipts from the following sources are not included as income: money received from the sale of property (unless the recipient was engaged in the business of selling such property); the value of income "in kind" from food stamps, public housing subsidies, medical care, employer contributions for persons, etc.; withdrawal of bank deposits; money borrowed; tax refunds; exchange of money between relatives living in the same household; gifts and lump-sum inheritances, insurance payments, and other types of lump-sum receipts.

Income Type in 1989

The eight types of income reported in the census are defined as follows:

1. *Wage or Salary Income*—Includes total money earnings received for work performed as an employee during the calendar year 1989. It includes wages, salary, Armed Forces pay, commissions, tips, piece-rate payments, and cash bonuses earned before deductions were made for taxes, bonds, pensions, union dues, etc.
2. *Nonfarm Self-Employment Income*—Includes net money income (gross receipts minus expenses) from one's own business, professional enterprise, or partnership. Gross receipts include the value of all goods sold and services rendered. Expenses include costs of goods purchased, rent, heat, light, power, depreciation charges, wages and salaries paid, business taxes (not personal income taxes), etc.
3. *Farm Self-Employment Income*—Includes net money income (gross receipts minus operating expenses) from the operation of a farm by a person on his or her own account, as an owner, renter, or sharecropper. Gross receipts include the value of all products sold, government farm programs, money received from the rental of farm equipment to others, and incidental receipts from the sale of wood, sand, gravel, etc. Operating expenses include cost of feed, fertilizer, seed, and other farming supplies, cash wages paid to farmhands, depreciation charges, cash rent, interest on farm mortgages, farm building repairs, farm taxes (not State and Federal personal income taxes), etc. The value of fuel, food, or other farm products used for family living is not included as part of net income.
4. *Interest, Dividend, or Net Rental Income*—Includes interest on savings or bonds, dividends from stockholdings or membership in associations, net income from rental of property to others and receipts from boarders or lodgers, net royalties, and periodic payments from an estate or trust fund.
5. *Social Security Income*—Includes Social Security pensions and survivors benefits and permanent disability insurance payments made by the Social Security Administration prior to deductions for medical insurance, and railroad retirement insurance checks from the U.S. Government. Medicare reimbursements are not included.
6. *Public Assistance Income*—Includes: (1) supplementary security income payments made by Federal or State welfare agencies to low income persons who are aged (65 years old or over), blind, or disabled; (2) aid to families with dependent children, and (3) general assistance. Separate payments received for hospital or other medical care (vendor payments) are excluded from this item.
7. *Retirement or Disability Income*—Includes: (1) retirement pensions and survivor benefits from a former employer, labor union, or Federal, State, county, or other governmental agency; (2) disability income from sources such as worker's compensation; companies or unions; Federal, State, or local government; and the U.S. military; (3) periodic receipts from annuities and insurance; and (4) regular income from IRA and KEOGH plans.
8. *All Other Income*—Includes unemployment compensation, Veterans Administration (VA) payments, alimony and child support, contributions received periodically from persons not living in the household, military family allotments, net gambling winnings, and other kinds of periodic income other than earnings.

Income of Households—Includes the income of the householder and all other persons 15 years old and over in the household, whether related to the householder or not. Because many households consist of only one person, average household income is usually less than average family income.

Income of Families and Persons—In compiling statistics on family income, the incomes of all members 15 years old and over in each family are summed and treated as a single amount. However, for persons 15 years old and over, the total amounts of their own incomes are used. Although the income statistics covered the calendar year 1989, the characteristics of persons and the composition of families refer to the time of enumeration (April 1990). Thus, the income of the family does not include amounts received by persons who were members of the family during all or part of the calendar year 1989 if these persons no longer resided with the family at the time of enumeration. Yet, family income amounts reported by related persons who did not reside with the family during 1989 but who were members of the family at the time of enumeration are included. However, the composition of most families was the same during 1989 as in April 1990.

Median Income—The median divides the income distribution into two equal parts, one having incomes above the median and the other having incomes below the median.

For households and families, the median income is based on the distribution of the total number of units including those with no income. The median for persons is based on persons with income. The median income values for all households, families, and persons are computed on the basis of more detailed income intervals than shown in most tabulations. Median household or family income figures of \$50,000 or less are calculated using linear interpolation. For persons, corresponding median values of \$40,000 or less are also computed using linear interpolation. All other median income amounts are derived through Pareto interpolation. (For more information on medians and interpolation, see the discussion under "Derived Measures.")

Mean Income—This is the amount obtained by dividing the total income of a particular statistical universe by the number of units in that universe. Thus, mean household income is obtained by dividing total household income by the total number of households. For the various types of income the means are based on households having those types of income. "Per capita income" is the mean income computed for every man, woman, and child in a particular group. It is derived by dividing the total income of a particular group by the total population in that group.

Care should be exercised in using and interpreting mean income values for small subgroups of the population. Because the mean is influenced strongly by extreme values in the distribution, it is especially susceptible to the effects of sampling variability, misreporting, and processing errors. The median, which is not affected by extreme values, is, therefore, a better measure than the mean when the population base is small. The mean, nevertheless, is shown in some data products for most small subgroups because, when weighted according to the number of cases, the means can be added to obtained summary measures for areas and groups other than those shown in census tabulations.

Limitation of the Data—Since questionnaire entries for income frequently are based on memory and not on records, many persons tended to forget minor or irregular sources of income and, therefore, underreport their income. Underreporting tends to be more pronounced for income sources that are not derived from earnings, such as Social Security, public assistance, or from interest, dividends, and net rental income.

There are errors of reporting due to the misunderstanding of the income questions such as reporting gross rather than net dollar amounts for the two questions on net self-employment income, which resulted in an overstatement of these items. Another common error is the reporting of identical dollar amounts in two of the eight type of income items where a respondent with only one source of income assumed that the second amount should be entered to represent total income. Such instances of

overreporting had an impact on the level of mean nonfarm or farm self-employment income and mean total income published for the various geographical subdivisions of the State.

Extensive computer editing procedures were instituted in the data processing operation to reduce some of these reporting errors and to improve the accuracy of the income data. These procedures corrected various reporting deficiencies and improved the consistency of reported income items associated with work experience and information on occupation and class of worker. For example, if persons reported they were self-employed on their own farm, not incorporated, but had reported wage and salary earnings only, the latter amount was shifted to net farm self-employment income. Also, if any respondent reported total income only, the amount was generally assigned to one of the type of income items according to responses to the work experience and class-of-worker questions. Another type of problem involved nonreporting of income data. Where income information was not reported, procedures were devised to impute appropriate values with either no income or positive or negative dollar amounts for the missing entries. (For more information on imputation, see Appendix C, Accuracy of the Data.)

In income tabulations for households and families, the lowest income group (e.g., less than \$5,000) includes units that were classified as having no 1989 income. Many of these were living on income "in kind," savings, or gifts, were newly created families, or families in which the sole breadwinner had recently died or left the household. However, many of the households and families who reported no income probably had some money income which was not recorded in the census.

The income data presented in the tabulations covers money income only. The fact that many farm families receive an important part of their income in the form of "free" housing and goods produced and consumed on the farm rather than in money should be taken into consideration in comparing the income of farm and nonfarm residents. Nonmoney income such as business expense accounts, use of business transportation and facilities, or partial compensation by business for medical and educational expenses was also received by some nonfarm residents. Many low income families also receive income "in kind" from public welfare programs. In comparing income data for 1989 with earlier years, it should be noted that an increase or decrease in money income does not necessarily represent a comparable change in real income, unless adjustments for changes in prices are made.

Comparability—The income data collected in the 1980 and 1970 censuses are similar to the 1990 census data, but there are variations in the detail of the questions. In 1980, income information for 1979 was collected from persons in approximately 19 percent of all housing units and group quarters. Each person was required to report:

- Wage or salary income

- Net nonfarm self-employment income
- Net farm self-employment income
- Interest, dividend, or net rental or royalty income
- Social Security income
- Public assistance income
- Income from all other sources

Between the 1980 and 1990 censuses, there were minor differences in the processing of the data. In both censuses, all persons with missing values in one or more of the detailed type of income items *and* total income were designated as allocated. Each missing entry was imputed either as a "no" or as a dollar amount. If total income was reported *and* one or more of the type of income fields was not answered, then the entry in total income generally was assigned to one of the income types according to the socioeconomic characteristics of the income recipient. This person was designated as unallocated.

In 1980 and 1990, all nonrespondents with income not reported (whether heads of households or other persons) were assigned the reported income of persons with similar characteristics. (For more information on imputation, see Appendix C, "Accuracy of the Data.")

There was a difference in the method of computer derivation of aggregate income from individual amounts between the two census processing operations. In the 1980 census, income amounts less than \$100,000 were coded in tens of dollars, and amounts of \$100,000 or more were coded in thousands of dollars; \$5 was added to each amount coded in tens of dollars and \$500 to each amount coded in thousands of dollars. Entries of \$999,000 or more were treated as \$999,500 and losses of \$9,999 or more were treated as minus \$9,999. In the 1990 census, income amounts less than \$999,999 were keyed in dollars. Amounts of \$999,999 or more were treated as \$999,999 and losses of \$9,999 or more were treated as minus \$9,999 in all of the computer derivations of aggregate income.

In 1970, information on income in 1969 was obtained from all members in every fifth housing unit and small group quarters (less than 15 persons) and every fifth person in all other group quarters. Each person was required to report:

- Wage or salary income
- Net nonfarm self-employment income
- Net farm self-employment income
- Social Security or Railroad Retirement
- Public assistance or welfare payments
- Income from all other sources

If a person reported a dollar amount in wage or salary, net nonfarm self-employment income, or net farm self-employment income, the person was considered as unallocated only if no further dollar amounts were imputed for any additional missing entries.

In 1960, data on income were obtained from all members in every fourth housing unit and from every fourth person 14 years old and over living in group quarters. Each person was required to report wage or salary income, net self-employment income, and income other than earnings received in 1959. An assumption was made in the editing process that no other type of income was received by a person who reported the receipt of either wage and salary income or self-employment but who had failed to report the receipt of other money income.

For several reasons, the income data shown in census tabulations are not directly comparable with those that may be obtained from statistical summaries of income tax returns. Income, as defined for Federal tax purposes, differs somewhat from the Census Bureau concept. Moreover, the coverage of income tax statistics is different because of the exemptions of persons having small amounts of income and the inclusion of net capital gains in tax returns. Furthermore, members of some families file separate returns and others file joint returns; consequently, the income reporting unit is not consistently either a family or a person.

The earnings data shown in census tabulations are not directly comparable with earnings records of the Social Security Administration. The earnings record data for 1989 excluded the earnings of most civilian government employees, some employees of nonprofit organizations, workers covered by the Railroad Retirement Act, and persons not covered by the program because of insufficient earnings. Furthermore, earnings received from any one employer in excess of \$48,000 in 1989 are not covered by earnings records. Finally, because census data are obtained from household questionnaires, they may differ from Social Security Administration earnings record data, which are based upon employers' reports and the Federal income tax returns of self-employed persons.

The Bureau of Economic Analysis (BEA) of the Department of Commerce publishes annual data on aggregate and per-capita personal income received by the population for States, metropolitan areas, and selected counties. Aggregate income estimates based on the income statistics shown in census products usually would be less than those shown in the BEA income series for several reasons. The Census Bureau data are obtained directly from households, whereas the BEA income series is estimated largely on the basis of data from administrative records of business and governmental sources. Moreover, the definitions of income are different. The BEA income series includes some items not included in the income data shown in census publications, such as income "in kind," income received by nonprofit institutions, the value of services of

banks and other financial intermediaries rendered to persons without the assessment of specific charges, Medicare payments, and the income of persons who died or emigrated prior to April 1, 1990. On the other hand, the census income data include contributions for support received from persons not residing in the same household and employer contributions for social insurance.

INDUSTRY, OCCUPATION, AND CLASS OF WORKER

The data on industry, occupation, and class of worker were derived from answers to questionnaire items 28, 29, and 30 respectively. These questions were asked of a sample of persons. Information on industry relates to the kind of business conducted by a person's employing organization; occupation describes the kind of work the person does on the job.

For employed persons, the data refer to the person's job during the reference week. For those who worked at two or more jobs, the data refer to the job at which the person worked the greatest number of hours. For unemployed persons, the data refer to their last job. The industry and occupation statistics are derived from the detailed classification systems developed for the 1990 census as described below. The *Classified Index of Industries and Occupations* provided additional information on the industry and occupation classification systems.

Respondents provided the data for the tabulations by writing on the questionnaires descriptions of their industry and occupation. These descriptions were keyed and passed through automated coding software which assigned a portion of the written entries to categories in the classification system. The automated system assigned codes to 59 percent of the industry entries and 38 percent of the occupation entries.

Those cases not coded by the computer were referred to clerical staff in the Census Bureau's Kansas City processing office for coding. The clerical staff converted the written questionnaire descriptions to codes by comparing these descriptions to entries in the *Alphabetical Index of Industries and Occupations*. For the industry code, these coders also referred to an Employer Name List (formerly called Company Name List). This list, prepared from the Standard Statistical Establishment List developed by the Census Bureau for the economic censuses and surveys, contained the names of business establishments and their Standard Industrial Classification (SIC) codes converted to population census equivalents. This list facilitated coding and maintained industrial classification comparability.

Industry

The industry classification system developed for the 1990 census consists of 236 categories for employed persons, classified into 13 major industry groups. Since

1940, the industrial classification has been based on the Standard Industrial Classification Manual (SIC). The 1990 census classification was developed from the 1987 SIC published by the Office of Management and Budget, Executive Office of the President.

The SIC was designed primarily to classify establishments by the type of industrial activity in which they were engaged. However, census data, which were collected from households, differ in detail and nature from those obtained from establishment surveys. Therefore, the census classification systems, while defined in SIC terms, cannot reflect the full detail in all categories. There are several levels of industrial classification found in census products. For example, the 1990 CP-2, *Social and Economic Characteristics* report includes 41 unique industrial categories, while the 1990 Summary Tape File 4 (STF 4) presents 72 categories.

Occupation

The occupational classification system developed for the 1990 census consists of 501 specific occupational categories for employed persons arranged into 6 summary and 13 major occupational groups. This classification was developed to be consistent with the Standard Occupational Classification (SOC) Manual: 1980, published by the Office of Federal Statistical Policy and Standards, U.S. Department of Commerce. Tabulations with occupation as the primary characteristic present several levels of occupational detail. The most detailed tabulations are shown in a special 1990 subject report and tape files on occupation. These products contain all 501 occupational categories plus industry or class of worker subgroupings of occupational categories.

Some occupation groups are related closely to certain industries. Operators of transportation equipment, farm operators and workers, and private household workers account for major portions of their respective industries of transportation, agriculture, and private households. However, the industry categories include persons in other occupations. For example, persons employed in agriculture include truck drivers and bookkeepers; persons employed in the transportation industry include mechanics, freight handlers, and payroll clerks; and persons employed in the private household industry include occupations such as chauffeur, gardener, and secretary.

Class of Worker

The data on class of worker were derived from answers to questionnaire item 30. The information on class of worker refers to the same job as a respondent's industry and occupation and categorizes persons according to the type of ownership of the employing organization. The class of worker categories are defined as follows:

Private Wage and Salary Workers—Includes persons who worked for wages, salary, commission, tips, pay-in-kind, or piece rates for a private for profit employer or a

private not-for-profit, tax-exempt or charitable organization. Self-employed persons whose business was incorporated are included with private wage and salary workers because they are paid employees of their own companies. Some tabulations present data separately for these sub-categories: "For profit," "Not for profit," and "Own business incorporated."

Employees of foreign governments, the United Nations, or other formal international organizations were classified as "Private-not-for-profit."

Government Workers—Includes persons who were employees of any local, State, or Federal governmental unit, regardless of the activity of the particular agency. For some tabulations, the data were presented separately for the three levels of government.

Self-Employed Workers—Includes persons who worked for profit or fees in their own unincorporated business, profession, or trade, or who operated a farm.

Unpaid Family Workers—Includes persons who worked 15 hours or more without pay in a business or on a farm operated by a relative.

Salaried/Self-Employed—In tabulations that categorize persons as either salaried or self-employed, the salaried category includes private and government wage and salary workers; self-employed includes self-employed persons and unpaid family workers.

The industry category, "Public administration," is limited to regular government functions such as legislative, judicial, administrative, and regulatory activities of governments. Other government organizations such as schools, hospitals, liquor stores, and bus lines are classified by industry according to the activity in which they are engaged. On the other hand, the class of worker government categories include all government workers.

Occasionally respondents supplied industry, occupation, or class of worker descriptions which were not sufficiently specific for precise classification or did not report on these items at all. Some of these cases were corrected through the field editing process and during the coding and tabulation operations. In the coding operation, certain types of incomplete entries were corrected using the *Alphabetical Index of Industries and Occupations*. For example, it was possible in certain situations to assign an industry code based on the occupation reported.

Following the coding operations, there was a computer edit and an allocation process. The edit first determined whether a respondent was in the universe which required an industry and occupation code. The codes for the three items (industry, occupation, and class of worker) were checked to ensure they were valid and were edited for their relation to each other. Invalid and inconsistent codes were either blanked or changed to a consistent code.

If one or more of the three codes were blank after the edit, a code was assigned from a "similar" person based on other items such as age, sex, education, farm or nonfarm residence, and weeks worked. If all the labor force and income data also were blank, all these economic items were assigned from one other person who provided all the necessary data.

Comparability—Comparability of industry and occupation data was affected by a number of factors, primarily the systems used to classify the questionnaire responses. For both the industry and occupation classification systems, the basic structures were generally the same from 1940 to 1970, but changes in the individual categories limited comparability of the data from one census to another. These changes were needed to recognize the "birth" of new industries and occupations, the "death" of others, and the growth and decline in existing industries and occupations, as well as, the desire of analysts and other users for more detail in the presentation of the data. Probably the greatest cause of incomparability is the movement of a segment of a category to a different category in the next census. Changes in the nature of jobs and respondent terminology, and refinement of category composition made these movements necessary.

In the 1990 census, the industry classification had minor revisions to reflect recent changes to the SIC. The 1990 occupational classification system is essentially the same as that for the 1980 census. However, the conversion of the census classification to the SOC in 1980 meant that the 1990 classification system was less comparable to the classifications used prior to the 1980 census.

Other factors that affected data comparability included the universe to which the data referred (in 1970, the age cutoff for labor force was changed from 14 years to 16 years); how the industry and occupation questions were worded on the questionnaire (for example, important changes were made in 1970); improvements in the coding procedures (the Employer Name List technique was introduced in 1960); and how the "not reported" cases are handled. Prior to 1970, they were placed in the residual categories, "Industry not reported" and "Occupation not reported." In 1970, an allocation process was introduced that assigned these cases to major groups. In 1990, as in 1980, the "Not reported" cases were assigned to individual categories. Therefore, the 1980 and 1990 data for individual categories included some numbers of persons who were tabulated in a "Not reported" category in previous censuses.

The following publications contain information on the various factors affecting comparability and are particularly useful for understanding differences in the occupation and industry information from earlier censuses: U.S. Bureau of the Census, *Changes Between the 1950 and 1960 Occupation and Industry Classifications With Detailed Adjustments of 1950 Data to the 1960 Classifications*, Technical Paper No. 18, 1968; U.S. Bureau of the Census, *1970 Occupation and Industry Classification Systems in Terms of their 1960 Occupation and Industry Elements*, Technical

Paper No. 26, 1972; and U.S. Bureau of the Census, *The Relationship Between the 1970 and 1980 Industry and Occupation Classification Systems*, Technical Paper No. 59, 1988. For citations for earlier census years, see the 1980 Census of Population report, PC80-1-D, *Detailed Population Characteristics*.

The 1990 census introduced an additional class of worker category for “private not-for-profit” employers. This category is a subset of the 1980 category “employee of private employer” so there is no comparable data before 1990. Also in 1990, employees of foreign governments, the United Nations, etc., are classified as “private not-for-profit,” rather than Federal Government as in 1970 and 1980. While in theory, there was a change in comparability, in practice, the small number of U.S. residents working for foreign governments made this change negligible.

Comparability between the statistics on industry and occupation from the 1990 census and statistics from other sources is affected by many of the factors described in the section on “Employment Status.” These factors are primarily geographic differences between residence and place of work, different dates of reference, and differences in counts because of dual job holding. Industry data from population censuses cover all industries and all kinds of workers, whereas, data from establishments often excluded private household workers, government workers, and the self-employed. Also, the replies from household respondents may have differed in detail and nature from those obtained from establishments.

Occupation data from the census and data from government licensing agencies, professional associations, trade unions, etc., may not be as comparable as expected. Organizational listings often include persons not in the labor force or persons devoting all or most of their time to another occupation; or the same person may be included in two or more different listings. In addition, relatively few organizations, except for those requiring licensing, attained complete coverage of membership in a particular occupational field.

JOURNEY TO WORK

Place of Work

The data on place of work were derived from answers to questionnaire item 22, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under “Reference Week.”)

Data were tabulated for workers 16 years and over; that is, members of the Armed Forces and civilians who were at work during the reference week. Data on place of work refer to the geographic location at which workers carried out their occupational activities during the reference week. The exact address (number and street) of the place of work was asked, as well as the place (city, town, or post office); whether or not the place of work was inside or

outside the limits of that city or town; and the county, State, and ZIP Code. If the person’s employer operated in more than one location, the exact address of the location or branch where the respondent worked was requested. When the number and street name were unknown, a description of the location, such as the building name or nearest street or intersection, was to be entered.

Persons who worked at more than one location during the reference week were asked to report the one at which they worked the greatest number of hours. Persons who regularly worked in several locations each day during the reference week were requested to give the address at which they began work each day. For cases in which daily work did not begin at a central place each day, the person was asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

In some tabulations, place-of-work locations may be defined as “in area of residence” and “outside area of residence.” The area of residence may vary from table to table or even within a table, and refers to the particular area or areas shown. For example, in a table that provides data for counties, “in area of residence” refers to persons who worked in the same county in which they lived, while “outside area of residence” refers to persons whose workplace was located in a county different from the one in which they lived. Similarly, in a table that provides data for several types of areas, such as the State and its individual metropolitan areas (MA’s), counties, and places, the place-of-work data will be variable and is determined by the geographic level (State, MA, county, or place) shown in each section of the tabulation.

In tabulations that present data for States, workplaces for the residents of the State may include, in addition to the State itself, each contiguous State. The category, “in noncontiguous State or abroad,” includes persons who worked in a State that did not border their State of residence as well as persons who worked outside the United States.

In tabulations that present data for an MSA/PMSA, place-of-work locations are specified to show the main destinations of workers living in the MSA/PMSA. (For more information on metropolitan areas (MA’s), see Appendix A, Area Classifications.) All place-of-work locations are identified with respect to the boundaries of the MSA/PMSA as “inside MSA/PMSA” or “outside MSA/PMSA.” Locations within the MSA/PMSA are further divided into each central city, and each county or county balance. Selected large incorporated places also may be specified as places of work.

Within New England MSA/PMSA’s, the places of work presented generally are cities and towns. Locations outside the MSA/PMSA are specified if they are important commuting destinations for residents of the MSA/PMSA, and may include adjoining MSA/PMSA’s and their central cities, their component counties, large incorporated places, or counties, cities, or other geographic areas outside any MA. In tabulations for MSA/PMSA’s in New England;

Honolulu, Hawaii; and certain other MA's, some place-of-work locations are identified as "areas" (e.g., Area 1, Area 5, Area 12, etc.). Such areas consist of groups of towns, cities, census designated places (Honolulu MSA only), or counties that have been identified as unique place-of-work destinations. When an adjoining MSA/PMSA or MSA/PMSA remainder is specified as a place-of-work location, its components are not defined. However, the components are presented in the 1990 CP-1, *General Population Characteristics for Metropolitan Areas* and the 1990 CH-1, *General Housing Characteristics for Metropolitan Areas* reports. In tabulations that present data for census tracts outside MA's, place-of-work locations are defined as "in county of residence" and "outside county of residence."

In areas where the workplace address was coded to the block level, persons were tabulated as working inside or outside a specific place based on the location of that address, regardless of the response to question 22c concerning city/town limits. In areas where it was impossible to code the workplace address to the block level, persons were tabulated as working in a place if a place name was reported in question 22b and the response to question 22c was either "Yes" or the item was left blank. In selected areas, census designated places (CDP's) may appear in the tabulations as places of work. The accuracy of place-of-work data for CDP's may be affected by the extent to which their census names were familiar to respondents, and by coding problems caused by similarities between the CDP name and the names of other geographic jurisdictions in the same vicinity.

Place-of-work data are given for selected minor civil divisions (generally, cities, towns, and townships) in the nine Northeastern States, based on the responses to the place-of-work question. Many towns and townships are regarded locally as equivalent to a place and therefore, were reported as the place of work. When a respondent reported a locality or incorporated place that formed a part of a township or town, the coding and tabulating procedure was designed to include the response in the total for the township or town. The accuracy of the place-of-work data for minor civil divisions is greatest for the New England States. However, the data for some New England towns, for towns in New York, and for townships in New Jersey and Pennsylvania may be affected by coding problems that resulted from the unfamiliarity of the respondent with the minor civil division in which the workplace was located or when a township and a city or borough of the same or similar name are located close together.

Place-of-work data may show a few workers who made unlikely daily work trips (e.g., workers who lived in New York and worked in California). This result is attributable to persons who worked during the reference week at a location that was different from their usual place of work, such as persons away from home on business.

Comparability—The wording of the question on place of work was substantially the same in the 1990 census as it was in 1980. However, data on place of work from the

1990 census are based on the full census sample, while data from the 1980 census were based on only about one-half of the full sample.

For the 1980 census, nonresponse or incomplete responses to the place-of-work question were not allocated, resulting in the use of "not reported" categories in the 1980 publications. However, for the 1990 census, when place of work was not reported or the response was incomplete, a work location was allocated to the person based on their means of transportation to work, travel time to work, industry, and location of residence and workplace of others. The 1990 publications, therefore, do not contain a "not reported" category for the place-of-work data.

Comparisons between 1980 and 1990 census data on the gross number of workers in particular commuting flows, or the total number of persons working in an area, should be made with extreme caution. Any apparent increase in the magnitude of the gross numbers may be due solely to the fact that for 1990 the "not reported" cases have been distributed among specific place-of-work destinations, instead of tallied in a separate category as in 1980.

Limitation of the Data—The data on place of work relate to a reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents because the enumeration was not completed in 1 week. However, for the majority of persons, the reference week for the 1990 census is the last week in March 1990. The lack of a uniform reference week means that the place-of-work data reported in the census will not exactly match the distribution of workplace locations observed or measured during an actual workweek.

The place-of-work data are estimates of persons 16 years old and over who were both employed and at work during the reference week (including persons in the Armed Forces). Persons who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons are not included in the place-of-work data. Therefore, the data on place of work understate the total number of jobs or total employment in a geographic area during the reference week. It also should be noted that persons who had irregular, casual, or unstructured jobs during the reference week may have erroneously reported themselves as not working.

The address where the individual worked most often during the reference week was recorded on the census questionnaire. If a worker held two jobs, only data about the primary job (the one worked the greatest number of hours during the preceding week) was requested. Persons who regularly worked in several locations during the reference week were requested to give the address at which they began work each day. For cases in which daily work was not begun at a central place each day, the person was

asked to provide as much information as possible to describe the area in which he or she worked most during the reference week.

Means of Transportation to Work

The data on means of transportation to work were derived from answers to questionnaire item 23a, which was asked of persons who indicated in question 21 that they worked at some time during the reference week. (For more information, see discussion under "Reference Week.") Means of transportation to work refers to the principal mode of travel or type of conveyance that the person usually used to get from home to work during the reference week.

Persons who used different means of transportation on different days of the week were asked to specify the one they used most often, that is, the greatest number of days. Persons who used more than one means of transportation to get to work each day were asked to report the one used for the longest distance during the work trip. The category, "Car, truck, or van," includes workers using a car (including company cars but excluding taxicabs), a truck of one-ton capacity or less, or a van. The category, "Public transportation," includes workers who used a bus or trolley bus, streetcar or trolley car, subway or elevated, railroad, ferryboat, or taxicab even if each mode is not shown separately in the tabulation. The category, "Other means," includes workers who used a mode of travel which is not identified separately within the data distribution. The category, "Other means," may vary from table to table, depending on the amount of detail shown in a particular distribution.

The means of transportation data for some areas may show workers using modes of public transportation that are not available in those areas (e.g., subway or elevated riders in an MA where there actually is no subway or elevated service). This result is largely due to persons who worked during the reference week at a location that was different from their usual place of work (such as persons away from home on business in an area where subway service was available) and persons who used more than one means of transportation each day but whose principal means was unavailable where they lived (for example, residents of nonmetropolitan areas who drove to the fringe of an MA and took the commuter railroad most of the distance to work).

Private Vehicle Occupancy

The data on private vehicle occupancy were derived from answers to questionnaire item 23b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that their means of transportation to work was "Car, truck, or van." (For more information, see discussion under "Reference Week.")

Private vehicle occupancy refers to the number of persons who usually rode to work in the vehicle during the reference week. The category, "Drove alone," includes persons who usually drove alone to work as well as persons who were driven to work by someone who then drove back home or to a nonwork destination. The category, "Carpooled," includes workers who reported that two or more persons usually rode to work in the vehicle during the reference week.

Persons Per Car, Truck, or Van—This is obtained by dividing the number of persons who reported using a car, truck, or van to get to work by the number of such vehicles that they used. The number of vehicles used is derived by counting each person who drove alone as one vehicle, each person who reported being in a two-person carpool as one-half vehicle, each person who reported being in a three-person carpool as one-third vehicle, and so on, and then summing all the vehicles.

Time Leaving Home to Go to Work

The data on time leaving home to go to work were derived from answers to questionnaire item 24a. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. The departure time refers to the time of day that the person usually left home to go to work during the reference week. (For more information, see discussion under "Reference Week.")

Travel Time to Work

The data on travel time to work were derived from answers to questionnaire item 24b. This question was asked of persons who indicated in question 21 that they worked at some time during the reference week and who reported in question 23a that they worked outside their home. Travel time to work refers to the total number of minutes that it usually took the person to get from home to work during the reference week. The elapsed time includes time spent waiting for public transportation, picking up passengers in carpools, and time spent in other activities related to getting to work. (For more information, see discussion under "Reference Week.")

LANGUAGE SPOKEN AT HOME AND ABILITY TO SPEAK ENGLISH

Language Spoken at Home

Data on language spoken at home were derived from the answers to questionnaire items 15a and 15b, which were asked of a sample of persons born before April 1, 1985. Instructions mailed with the 1990 census questionnaire stated that a respondent should mark "Yes" in

question 15a if the person sometimes or always spoke a language other than English at home and should not mark "Yes" if a language was spoken only at school or if speaking was limited to a few expressions or slang. For question 15b, respondents were instructed to print the name of the non-English language spoken at home. If the person spoke more than one language other than English, the person was to report the language spoken more often or the language learned first.

The cover of the census questionnaire included information in Spanish which provided a telephone number for respondents to call to request a census questionnaire and instructions in Spanish. Instruction guides were also available in 32 other languages to assist enumerators who encountered households or respondents who spoke no English.

Questions 15a and 15b referred to languages spoken at home in an effort to measure the current use of languages other than English. Persons who knew languages other than English but did not use them at home or who only used them elsewhere were excluded. Persons who reported speaking a language other than English at home may also speak English; however, the questions did not permit determination of the main or dominant language of persons who spoke both English and another language. (For more information, see discussion below on "Ability to Speak English.")

For persons who indicated that they spoke a language other than English at home in question 15a, but failed to specify the name of the language in question 15b, the language was assigned based on the language of other speakers in the household; on the language of a person of the same Spanish origin or detailed race group living in the same or a nearby area; or on a person of the same ancestry or place of birth. In all cases where a person was assigned a non-English language, it was assumed that the language was spoken at home. Persons for whom the name of a language other than English was entered in question 15b, and for whom question 15a was blank were assumed to speak that language at home.

The write-in responses listed in question 15b (specific language spoken) were transcribed onto computer files and coded into more than 380 detailed language categories using an automated coding system. The automated procedure compared write-in responses reported by respondents with entries in a computer dictionary, which initially contained approximately 2,000 language names. The dictionary was updated with a large number of new names, variations in spelling, and a small number of residual categories. Each write-in response was given a numeric code that was associated with one of the detailed categories in the dictionary. If the respondent listed more than one non-English language, only the first was coded.

The write-in responses represented the names people used for languages they speak. They may not match the names or categories used by linguists. The sets of categories used are sometimes geographic and sometimes linguistic. Figure 1 provides an illustration of the content of

the classification schemes used to present language data. For more information, write to the Chief, Population Division, U.S. Bureau of the Census, Washington, DC 20233.

Household Language—In households where one or more persons (age 5 years old or over) speak a language other than English, the household language assigned to all household members is the non-English language spoken by the first person with a non-English language in the following order: householder, spouse, parent, sibling, child, grandchild, other relative, stepchild, unmarried partner, housemate or roommate, roomer, boarder, or foster child, or other nonrelative. Thus, persons who speak only English may have a non-English household language assigned to them in tabulations of persons by household language.

Figure 1. Four- and Twenty-Five-Group Classifications of 1990 Census Languages Spoken at Home With Illustrative Examples

Four-Group Classification	Twenty-Five-Group Classification	Examples
Spanish	Spanish	Spanish, Ladino
Other Indo-European	French	French, Cajun, French Creole
	Italian	
	Portuguese	
	German	
	Yiddish	
	Other West Germanic	Afrikaans, Dutch, Pennsylvania Dutch
	Scandinavian	Danish, Norwegian, Swedish
	Polish	
	Russian	
	South Slavic	Serbocroatian, Bulgarian, Macedonian, Slovene
Languages of Asia and the Pacific	Other Slavic	Czech, Slovak, Ukrainian
	Greek	
	Indic	Hindi, Bengali, Gujarathi, Punjabi, Romany, Sinhalese
	Other Indo-European, not elsewhere classified	Armenian, Gaelic, Lithuanian, Persian
	Chinese	
	Japanese	
	Mon-Khmer	Cambodian
	Tagalog	
	Korean	
	Vietnamese	
All other languages	Other languages (part)	Chamorro, Dravidian Languages, Hawaiian, Ilocano, Thai, Turkish
	Arabic	
	Hungarian	
	Native North American languages	
	Other languages (part)	Amharic, Syriac, Finnish, Hebrew, Languages of Central and South America, Other Languages of Africa

Ability to Speak English

Persons 5 years old and over who reported that they spoke a language other than English in question 15a were also asked in question 15c to indicate their ability to speak English based on one of the following categories: "Very well," "Well," "Not well," or "Not at all."

The data on ability to speak English represent the person's own perception about his or her own ability or, because census questionnaires are usually completed by one household member, the responses may represent the perception of another household member. The instruction guides and questionnaires that were mailed to households did not include any information on how to interpret the response categories in question 15c.

Persons who reported that they spoke a language other than English at home but whose ability to speak English was not reported, were assigned the English-language ability of a randomly selected person of the same age, Spanish origin, nativity and year of entry, and language group.

Linguistic Isolation—A household in which no person age 14 years or over speaks only English and no person age 14 years or over who speaks a language other than English speaks English "Very well" is classified as "linguistically isolated." All the members of a linguistically isolated household are tabulated as linguistically isolated, including members under age 14 years who may speak only English.

Limitation of the Data—Persons who speak a language other than English at home may have first learned that language at school. However, these persons would be expected to indicate that they spoke English "Very well." Persons who speak a language other than English, but do not do so *at home*, should have been reported as not speaking a language other than English at home.

The extreme detail in which language names were coded may give a false impression of the linguistic precision of these data. The names used by speakers of a language to identify it may reflect ethnic, geographic, or political affiliations and do not necessarily respect linguistic distinctions. The categories shown in the tabulations were chosen on a number of criteria, such as information about the number of speakers of each language that might be expected in a sample of the United States population.

Comparability—Information on language has been collected in every census since 1890. The comparability of data among censuses is limited by changes in question wording, by the subpopulations to whom the question was addressed, and by the detail that was published.

The same question on language was asked in the 1980 and 1990 censuses. This question on the current language spoken at home replaced the questions asked in prior

censuses on mother tongue; that is, the language other than English spoken in the person's home when he or she was a child; one's first language; or the language spoken before immigrating to the United States. The censuses of 1910-1940, 1960 and 1970 included questions on mother tongue. A change in coding procedure from 1980 to 1990 should have improved accuracy of coding and may affect the number of persons reported in some of the 380 plus categories. It should not greatly affect the 4-group or 25-group lists. In 1980, coding clerks supplied numeric codes for the written entries on each questionnaire using a 2,000 name reference list. In 1990 written entries were transcribed to a computer file and matched to a computer dictionary which began with the 2,000 name list, but expanded as unmatched names were referred to headquarters specialists for resolution.

The question on ability to speak English was asked for the first time in 1980. In tabulations from 1980, the categories "Very well" and "Well" were combined. Data from other surveys suggested a major difference between the category "Very well" and the remaining categories. In tabulations showing ability to speak English, persons who reported that they spoke English "Very well" are presented separately from persons who reported their ability to speak English as less than "Very well."

MARITAL STATUS

The data on marital status were derived from answers to questionnaire item 6, which was asked of all persons. The marital status classification refers to the status at the time of enumeration. Data on marital status are tabulated only for persons 15 years old and over.

All persons were asked whether they were "now married," "widowed," "divorced," "separated," or "never married." Couples who live together (unmarried persons, persons in common-law marriages) were allowed to report the marital status they considered the most appropriate.

Never Married—Includes all persons who have never been married, including persons whose only marriage(s) was annulled.

Ever Married—Includes persons married at the time of enumeration (including those separated), widowed, or divorced.

Now Married, Except Separated—Includes persons whose current marriage has not ended through widowhood, divorce, or separation (regardless of previous marital history). The category may also include couples who live together or persons in common-law marriages if they consider this category the most appropriate. In certain tabulations, currently married persons are further classified as "spouse present" or "spouse absent."

Separated—Includes persons legally separated or otherwise absent from their spouse because of marital discord. Included are persons who have been deserted or who have parted because they no longer want to live together but who have not obtained a divorce.

Widowed—Includes widows and widowers who have not remarried.

Divorced—Includes persons who are legally divorced and who have not remarried.

In selected sample tabulations, data for married and separated persons are reorganized and combined with information on the presence of the spouse in the same household.

Now Married—All persons whose current marriage has not ended by widowhood or divorce. This category includes persons defined above as “separated.”

Spouse Present—Married persons whose wife or husband was enumerated as a member of the same household, including those whose spouse may have been temporarily absent for such reasons as travel or hospitalization.

Spouse Absent—Married persons whose wife or husband was not enumerated as a member of the same household. This category also includes all married persons living in group quarters.

Separated—Defined above.

Spouse Absent, Other—Married persons whose wife or husband was not enumerated as a member of the same household, excluding separated. Included is any person whose spouse was employed and living away from home or in an institution or absent in the Armed Forces.

Differences between the number of currently married males and the number of currently married females occur because of reporting differences and because some husbands and wives have their usual residence in different areas. In sample tabulations, these differences can also occur because different weights are applied to the individual's data. Any differences between the number of “now married, spouse present” males and females are due solely to sample weighting. By definition, the numbers would be the same.

When marital status was not reported, it was imputed according to the relationship to the householder and sex and age of the person. (For more information on imputation, see Appendix C, Accuracy of the Data.)

Comparability—The 1990 marital status definitions are the same as those used in 1980 with the exception of the term “never married” which replaces the term “single” in tabulations. A general marital status question has been asked in every census since 1880.

MOBILITY LIMITATION STATUS

The data on mobility limitation status were derived from answers to questionnaire item 19a, which was asked of a sample of persons 15 years old and over. Persons were

identified as having a mobility limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to go outside the home alone. Examples of outside activities on the questionnaire included shopping and visiting the doctor's office.

The term “health condition” referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—This was the first time that a question on mobility limitation was included in the census.

PLACE OF BIRTH

The data on place of birth were derived from answers to questionnaire item 8, which was asked on a sample basis. The place-of-birth question asked respondents to report the U.S. State, commonwealth or territory, or the foreign country where they were born. Persons born outside the United States were asked to report their place of birth according to current international boundaries. Since numerous changes in boundaries of foreign countries have occurred in the last century, some persons may have reported their place of birth in terms of boundaries that existed at the time of their birth or emigration, or in accordance with their own national preference.

Persons not reporting place of birth were assigned the birthplace of another family member or were allocated the response of another person with similar characteristics. Persons allocated as foreign born were not assigned a specific country of birth but were classified as “Born abroad, country not specified.”

Nativity—Information on place of birth and citizenship were used to classify the population into two major categories: native and foreign born. When information on place of birth was not reported, nativity was assigned on the basis of answers to citizenship, if reported, and other characteristics.

Native—Includes persons born in the United States, Puerto Rico, or an outlying area of the United States. The small number of persons who were born in a foreign country but have at least one American parent also are included in this category.

The native population is classified in the following groups: persons born in the State in which they resided at the time of the census; persons born in a different State, by region; persons born in Puerto Rico or an outlying area of the U.S.; and persons born abroad with at least one American parent.

Foreign Born—Includes persons not classified as “Native.” Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The foreign-born population is shown by selected area, country, or region of birth; the places of birth shown in data products were selected based on the number of respondents who reported that area or country of birth.

Comparability—Data on the State of birth of the native population have been collected in each census beginning with that of 1850. Similar data were shown in tabulations for the 1980 census and other recent censuses. Nonresponse was allocated in a similar manner in 1980; however, prior to 1980, nonresponse to the place of birth question was not allocated. Prior to the 1970 census, persons not reporting place of birth were generally classified as native.

The questionnaire instruction to report mother's State of residence instead of the person's actual State of birth (if born in a hospital in a different State) was dropped in 1990. Evaluation studies of 1970 and 1980 census data demonstrated that this instruction was generally either ignored or misunderstood. Since the hospital and the mother's residence is in the same State for most births, this change may have a slight effect on State of birth data for States with large metropolitan areas that straddle State lines.

POVERTY STATUS IN 1989

The data on poverty status were derived from answers to the same questions as the income data, questionnaire items 32 and 33. (For more information, see the discussion under "Income in 1989.") Poverty statistics presented in census publications were based on a definition originated by the Social Security Administration in 1964 and subsequently modified by Federal interagency committees in 1969 and 1980 and prescribed by the Office of Management and Budget in Directive 14 as the standard to be used by Federal agencies for statistical purposes.

At the core of this definition was the 1961 economy food plan, the least costly of four nutritionally adequate food plans designed by the Department of Agriculture. It was determined from the Agriculture Department's 1955 survey of food consumption that families of three or more persons spend approximately one-third of their income on food; hence, the poverty level for these families was set at three times the cost of the economy food plan. For smaller families and persons living alone, the cost of the economy food plan was multiplied by factors that were slightly higher to compensate for the relatively larger fixed expenses for these smaller households.

The income cutoffs used by the Census Bureau to determine the poverty status of families and unrelated individuals included a set of 48 thresholds arranged in a two-dimensional matrix consisting of family size (from one person to nine or more persons) cross-classified by presence and number of family members under 18 years old (from no children present to eight or more children present). Unrelated individuals and two-person families were further differentiated by age of the householder (under 65 years old and 65 years old and over).

The total income of each family or unrelated individual in the sample was tested against the appropriate poverty threshold to determine the poverty status of that family or unrelated individual. If the total income was less than the corresponding cutoff, the family or unrelated individual was classified as "below the poverty level." The number of persons below the poverty level was the sum of the number of persons in families with incomes below the poverty level and the number of unrelated individuals with incomes below the poverty level.

The poverty thresholds are revised annually to allow for changes in the cost of living as reflected in the Consumer Price Index. The average poverty threshold for a family of four persons was \$12,674 in 1989. (For more information, see table A below.) Poverty thresholds were applied on a national basis and were not adjusted for regional, State or local variations in the cost of living. For a detailed discussion of the poverty definition, see U.S. Bureau of the Census, Current Population Reports, Series P-60, No. 171, *Poverty in the United States: 1988 and 1989*.

Persons for Whom Poverty Status is Determined—

Poverty status was determined for all persons except institutionalized persons, persons in military group quarters and in college dormitories, and unrelated individuals under 15 years old. These groups also were excluded from the denominator when calculating poverty rates.

Specified Poverty Levels—Since the poverty levels currently in use by the Federal Government do not meet all the needs of data users, some of the data are presented for alternate levels. These specified poverty levels are obtained by multiplying the income cutoffs at the poverty level by the appropriate factor. For example, the average income cutoff at 125 percent of poverty level was \$15,843 (\$12,674 x 1.25) in 1989 for a family of four persons.

Weighted Average Thresholds at the Poverty Level—The average thresholds shown in the first column of table A are weighted by the presence and number of children. For example, the weighted average threshold for a given family size is obtained by multiplying the threshold for each presence and number of children category within the given family size by the number of families in that category. These products are then aggregated across the entire range of presence and number of children categories, and the aggregate is divided by the total number of families in the group to yield the weighted average threshold at the poverty level for that family size.

Since the basic thresholds used to determine the poverty status of families and unrelated individuals are applied to all families and unrelated individuals, the weighted average poverty thresholds are derived using all families and unrelated individuals rather than just those classified as being below the poverty level. To obtain the weighted poverty thresholds for families and unrelated individuals below alternate poverty levels, the weighted thresholds

shown in table A may be multiplied directly by the appropriate factor. The weighted average thresholds presented in the table are based on the March 1990 Current Population Survey. However, these thresholds would not differ significantly from those based on the 1990 census.

Income Deficit—Represents the difference between the total income of families and unrelated individuals below the poverty level and their respective poverty thresholds. In computing the income deficit, families reporting a net income loss are assigned zero dollars and for such cases the deficit is equal to the poverty threshold.

This measure provided an estimate of the amount which would be required to raise the incomes of all poor families and unrelated individuals to their respective poverty thresholds. The income deficit is thus a measure of the degree of impoverishment of a family or unrelated individual. However, caution must be used in comparing the average deficits of families with different characteristics. Apparent differences in average income deficits may, to some extent, be a function of differences in family size.

Mean Income Deficit—Represents the amount obtained by dividing the total income deficit of a group below the poverty level by the number of families (or unrelated individuals) in that group.

Comparability—The poverty definition used in the 1990 and 1980 censuses differed slightly from the one used in the 1970 census. Three technical modifications were made to the definition used in the 1970 census as described below:

1. The separate thresholds for families with a female householder with no husband present and all other families were eliminated. For the 1980 and 1990 censuses, the weighted average of the poverty thresholds for these two types of families was applied to all types of families, regardless of the sex of the householder.

2. Farm families and farm unrelated individuals no longer had a set of poverty thresholds that were lower than the thresholds applied to nonfarm families and unrelated individuals. The farm thresholds were 85 percent of the corresponding levels for nonfarm families in the 1970 census. The same thresholds were applied to all families and unrelated individuals regardless of residence in 1980 and 1990.
3. The thresholds by size of family were extended from seven or more persons in 1970 to nine or more persons in 1980 and 1990.

These changes resulted in a minimal increase in the number of poor at the national level. For a complete discussion of these modifications and their impact, see the Current Population Reports, Series P-60, No. 133.

The population covered in the poverty statistics derived from the 1980 and 1990 censuses was essentially the same as in the 1970 census. The only difference was that in 1980 and 1990, unrelated individuals under 15 years old were excluded from the poverty universe, while in 1970, only those under 14 years old were excluded. The poverty data from the 1960 census excluded all persons in group quarters and included all unrelated individuals regardless of age. It was unlikely that these differences in population coverage would have had significant impact when comparing the poverty data for persons since the 1960 censuses.

Current Population Survey—Because of differences in the questionnaires and data collection procedures, estimates of the number of persons below the poverty level by various characteristics from the 1990 census may differ from those reported in the March 1990 Current Population Survey.

RACE

The data on race were derived from answers to questionnaire item 4, which was asked of all persons. The concept of race as used by the Census Bureau reflects

Table A. Poverty Thresholds in 1989 by Size of Family and Number of Related Children Under 18 Years

Size of Family Unit	Weighted average thresholds	Related children under 18 years								
		None	One	Two	Three	Four	Five	Six	Seven	Eight or more
One person (unrelated individual).	\$6,310									
Under 65 years.....	6 451	\$6,451								
65 years and over	5,947	5,947								
Two persons.....	8,076									
Householder under 65 years...	8,343	8,303	\$8,547							
Householder 65 years and over	7,501	7,495	8,515							
Three persons	9,885	9,699	9,981	\$9,990						
Four persons	12,674	12,790	12,999	12,575	\$12,619					
Five persons.....	14,990	15,424	15,648	15,169	14,798	\$14,572				
Six persons.....	16,921	17,740	17,811	17,444	17,092	16,569	\$16,259			
Seven persons.....	19,162	20,412	20,540	20,101	19,794	19,224	18,558	\$17,828		
Eight persons	21,328	22,830	23,031	22,617	22,253	21,738	21,084	20,403	\$20,230	
Nine or more persons	25,480	27,463	27,596	27,229	26,921	26,415	25,719	25,089	24,933	\$23,973

self-identification; it does not denote any clear-cut scientific definition of biological stock. The data for race represent self-classification by people according to the race with which they most closely identify. Furthermore, it is recognized that the categories of the race item include both racial and national origin or socio-cultural groups.

During direct interviews conducted by enumerators, if a person could not provide a single response to the race question, he or she was asked to select, based on self-identification, the group which best described his or her racial identity. If a person could not provide a single race response, the race of the mother was used. If a single race response could not be provided for the person's mother, the first race reported by the person was used. In all cases where occupied housing units, households, or families are classified by race, the race of the householder was used.

The racial classification used by the Census Bureau generally adheres to the guidelines in Federal Statistical Directive No. 15, issued by the Office of Management and Budget, which provides standards on ethnic and racial categories for statistical reporting to be used by all Federal agencies. The racial categories used in the 1990 census data products are provided below.

White—Includes persons who indicated their race as "White" or reported entries such as Canadian, German, Italian, Lebanese, Near Easterner, Arab, or Polish.

Black—Includes persons who indicated their race as "Black or Negro" or reported entries such as African American, Afro-American, Black Puerto Rican, Jamaican, Nigerian, West Indian, or Haitian.

American Indian, Eskimo, or Aleut—Includes persons who classified themselves as such in one of the specific race categories identified below.

American Indian—Includes persons who indicated their race as "American Indian," entered the name of an Indian tribe, or reported such entries as Canadian Indian, French-American Indian, or Spanish-American Indian.

American Indian Tribe—Persons who identified themselves as American Indian were asked to report their enrolled or principal tribe. Therefore, tribal data in tabulations reflect the written tribal entries reported on the questionnaires. Some of the entries (for example, Iroquois, Sioux, Colorado River, and Flathead) represent nations or reservations.

The information on tribe is based on self-identification and therefore does not reflect any designation of Federally- or State-recognized tribe. Information on American Indian tribes is presented in summary tape files and special data products. The information is derived from the American Indian Detailed Tribal

Classification List for the 1990 census. The classification list represents all tribes, bands, and clans that had a specified number of American Indians reported on the census questionnaire.

Eskimo—Includes persons who indicated their race as "Eskimo" or reported entries such as Arctic Slope, Inupiat, and Yupik.

Aleut—Includes persons who indicated their race as "Aleut" or reported entries such as Alutiiq, Egegik, and Pribilovian.

Asian or Pacific Islander—Includes persons who reported in one of the Asian or Pacific Islander groups listed on the questionnaire or who provided write-in responses such as Thai, Nepali, or Tongan. A more detailed listing of the groups comprising the Asian or Pacific Islander population is presented in figure 2 below. In some data products, information is presented separately for the Asian population and the Pacific Islander population.

Asian—Includes "Chinese," "Filipino," "Japanese," "Asian Indian," "Korean," "Vietnamese," and "Other Asian." In some tables, "Other Asian" may not be shown separately, but is included in the total Asian population.

Chinese—Includes persons who indicated their race as "Chinese" or who identified themselves as Cantonese, Tibetan, or Chinese American. In standard census reports, persons who reported as "Taiwanese" or "Formosan" are included here with Chinese. In special reports on the Asian or Pacific Islander population, information on persons who identified themselves as Taiwanese are shown separately.

Filipino—Includes persons who indicated their race as "Filipino" or reported entries such as Philipino, Philippine, or Filipino American.

Japanese—Includes persons who indicated their race as "Japanese" and persons who identified themselves as Nipponese or Japanese American.

Asian Indian—Includes persons who indicated their race as "Asian Indian" and persons who identified themselves as Bengalese, Bharat, Dravidian, East Indian, or Goanese.

Korean—Includes persons who indicated their race as "Korean" and persons who identified themselves as Korean American.

Vietnamese—Includes persons who indicated their race as "Vietnamese" and persons who identified themselves as Vietnamese American.

Cambodian—Includes persons who provided a write-in response such as Cambodian or Cambodia.

Hmong—Includes persons who provided a write-in response such as Hmong, Laohmong, or Mong.

Laotian—Includes persons who provided a write-in response such as Laotian, Laos, or Lao.

Thai—Includes persons who provided a write-in response such as Thai, Thailand, or Siamese.

Other Asian—Includes persons who provided a write-in response of Bangladeshi, Burmese, Indonesian, Pakistani, Sri Lankan, Amerasian, or Eurasian. See figure 2 for other groups comprising "Other Asian."

Pacific Islander—Includes persons who indicated their race as "Pacific Islander" by classifying themselves into one of the following groups or identifying themselves as one of the Pacific Islander cultural groups of Polynesian, Micronesian, or Melanesian.

Hawaiian—Includes persons who indicated their race as "Hawaiian" as well as persons who identified themselves as Part Hawaiian or Native Hawaiian.

*Samoa*n—Includes persons who indicated their race as "Samoa" or persons who identified themselves as American Samoa or Western Samoa.

Guamanian—Includes persons who indicated their race as "Guamanian" or persons who identified themselves as Chamorro or Guam.

Other Pacific Islander—Includes persons who provided a write-in response of a Pacific Islander group such as Tahitian, Northern Mariana Islander, Palauan, Fijian, or a cultural group such as Polynesian, Micronesian, or Melanesian. See figure 2 for other groups comprising "Other Pacific Islander."

Other Race—Includes all other persons not included in the "White," "Black," "American Indian, Eskimo, or Aleut," and the "Asian or Pacific Islander" race categories described above. Persons reporting in the "Other race" category and providing write-in entries such as multiracial, multiethnic, mixed, interracial, Wesort, or a Spanish/Hispanic origin group (such as Mexican, Cuban, or Puerto Rican) are included here.

Written entries to three categories on the race item—"Indian (Amer.)," "Other Asian or Pacific Islander (API)," and "Other race"—were reviewed, edited, and coded by subject matter specialists. (For more information on the coding operation, see the section below that discusses "Comparability.")

The written entries under "Indian (Amer.)," and "Other Asian or Pacific Islander (API)" were reviewed and coded during 100-percent processing of the 1990 census questionnaires. A substantial portion of the entries for the "Other race" category also were reviewed, edited, and coded during the 100-percent processing. The remaining entries under "Other race" underwent review and coding during sample processing. Most of the written entries reviewed and coded during sample processing were those indicating Hispanic origin such as Mexican, Cuban, or Puerto Rican.

If the race entry for a member of a household was missing on the questionnaire, race was assigned based upon the reported entries of race by other household members using specific rules of precedence of household relationship. For example, if race was missing for the daughter of the householder, then the race of her mother (as female householder or female spouse) would be assigned. If there was no female householder or spouse in the household, the daughter would be assigned her father's (male householder) race. If race was not reported for anyone in the household, the race of a householder in a previously processed household was assigned. This procedure is a variation of the general imputation procedures described in Appendix C, Accuracy of the Data.

Limitation of the Data—In the 1980 census, a relatively high proportion (20 percent) of American Indians did not report any tribal entry in the race item. Evaluation of the pre-census tests indicated that changes made for the 1990 race item should improve the reporting of tribes in the rural areas (especially on reservations) for the 1990 census. The results for urban areas were inconclusive. Also, the precensus tests indicated that there may be overreporting of the Cherokee tribe. An evaluation of 1980 census data showed overreporting of Cherokee in urban areas or areas where the number of American Indians was sparse.

In the 1990 census, respondents sometimes did not fill in a circle or filled the "Other race" circle and wrote in a response, such as Arab, Polish, or African American in the shared write-in box for "Other race" and "Other API" responses. During the automated coding process, these responses were edited and assigned to the appropriate racial designation. Also, some Hispanic origin persons did not fill in a circle, but provided entries such as Mexican or Puerto Rican. These persons were classified in the "Other race" category during the coding and editing process. There may be some minor differences between sample data and 100-percent data because sample processing included additional edits not included in the 100-percent processing.

Figure 2. Asian or Pacific Islander Groups Reported in the 1990 Census

Asian	Pacific Islander
Chinese	Hawaiian
Filipino	Samoaan
Japanese	Guamanian
Asian Indian	Other Pacific Islander ¹
Korean	Carolinian
Vietnamese	Fijian
Cambodian	Kosraean
Hmong	Melanesian ³
Laotian	Micronesian ³
Thai	Northern Mariana Islander
Other Asian ¹	Palauan
Bangladeshi	Papua New Guinean
Bhutanese	Ponapean (Pohnpeian)
Borneo	Polynesian ³
Burmese	Solomon Islander
Celebesian	Tahitian
Ceram	Tarawa Islander
Indochinese	Tokelauan
Indonesian	Tongan
Iwo-Jiman	Trukese (Chuukese)
Javanese	Yapese
Malayan	Pacific Islander, not specified
Maldivian	
Nepali	
Okinawan	
Pakistani	
Sikkim	
Singaporean	
Sri Lankan	
Sumatran	
Asian, not specified ²	

¹In some data products, specific groups listed under "Other Asian" or "Other Pacific Islander" are shown separately. Groups not shown are tabulated as "All other Asian" or "All other Pacific Islander," respectively.

²Includes entries such as Asian American, Asian, Asiatic, Amerasian, and Eurasian.

³Polynesian, Micronesian, and Melanesian are Pacific Islander cultural groups.

Comparability—Differences between the 1990 census and earlier censuses affect the comparability of data for certain racial groups and American Indian tribes. The 1990 census was the first census to undertake, on a 100-percent basis, an automated review, edit, and coding operation for written responses to the race item. The automated coding system used in the 1990 census greatly reduced the potential for error associated with a clerical review. Specialists with a thorough knowledge of the race subject matter reviewed, edited, coded, and resolved inconsistent or incomplete responses. In the 1980 census, there was only a limited clerical review of the race responses on the 100-percent forms with a full clerical review conducted only on the sample questionnaires.

Another major difference between the 1990 and preceding censuses is the handling of the write-in responses for the Asian or Pacific Islander populations. In addition to the nine Asian or Pacific Islander categories shown on the questionnaire under the spanner "Asian or Pacific Islander (API)," the 1990 census race item provided a new residual category, "Other API," for Asian or Pacific Islander persons who did not report in one of the listed Asian or Pacific

Islander groups. During the coding operation, write-in responses for "Other API" were reviewed, coded, and assigned to the appropriate classification. For example, in 1990, a write-in entry of Laotian, Thai, or Javanese is classified as "Other Asian," while a write-in entry of Tongan or Fijian is classified as "Other Pacific Islander." In the 1990 census, these persons were able to identify as "Other API" in both the 100-percent and sample operations.

In the 1980 census, the nine Asian or Pacific Islander groups were also listed separately. However, persons not belonging to these nine groups wrote in their specific racial group under the "Other" race category. Persons with a written entry such as Laotian, Thai, or Tongan, were tabulated and published as "Other race" in the 100-percent processing operation in 1980, but were reclassified as "Other Asian and Pacific Islander" in 1980 sample tabulations. In 1980 special reports on the Asian or Pacific Islander populations, data were shown separately for "Other Asian" and "Other Pacific Islander."

The 1970 questionnaire did not have separate race categories for Asian Indian, Vietnamese, Samoan, and Guamanian. These persons indicated their race in the "Other" category and later, through the editing process, were assigned to a specific group. For example, in 1970, Asian Indians were reclassified as "White," while Vietnamese, Guamanians, and Samoans were included in the "Other" category.

Another difference between 1990 and preceding censuses is the approach taken when persons of Spanish/Hispanic origin did not report in a specific race category but reported as "Other race" or "Other." These persons commonly provided a write-in entry such as Mexican, Venezuelan, or Latino. In the 1990 and 1980 censuses, these entries remained in the "Other race" or "Other" category, respectively. In the 1970 census, most of these persons were included in the "White" category.

REFERENCE WEEK

The data on labor force status and journey to work were related to the reference week; that is, the calendar week preceding the date on which the respondents completed their questionnaires or were interviewed by enumerators. This week is not the same for all respondents since the enumeration was not completed in one week. The occurrence of holidays during the enumeration period could affect the data on actual hours worked during the reference week, but probably had no effect on overall measurement of employment status (see the discussion below on "Comparability").

Comparability—The reference weeks for the 1990 and 1980 censuses differ in that Passover and Good Friday occurred in the first week of April 1980, but in the second week of April 1990. Many workers presumably took time off for those observances. The differing occurrence of

these holidays could affect the comparability of the 1990 and 1980 data on actual hours worked for some areas if the respective weeks were the reference weeks for a significant number of persons. The holidays probably did not affect the overall measurement of employment status since this information was based on work activity during the entire reference week.

RESIDENCE IN 1985

The data on residence in 1985 were derived from answers to questionnaire item 14b, which asked for the State (or foreign country), county, and place of residence on April 1, 1985, for those persons reporting in question 14a that on that date they lived in a different house than their current residence. Residence in 1985 is used in conjunction with location of current residence to determine the extent of residential mobility of the population and the resulting redistribution of the population across the various States, metropolitan areas, and regions of the country.

When no information on residence in 1985 was reported for a person, information for other family members, if available, was used to assign a location of residence in 1985. All cases of nonresponse or incomplete response that were not assigned a previous residence based on information from other family members were allocated the previous residence of another person with similar characteristics who provided complete information.

The tabulation category, "Same house," includes all persons 5 years old and over who did not move during the 5 years as well as those who had moved but by 1990 had returned to their 1985 residence. The category, "Different house in the United States," includes persons who lived in the United States in 1985 but in a different house or apartment from the one they occupied on April 1, 1990. These movers are then further subdivided according to the type of move.

In most tabulations, movers are divided into three groups according to their 1985 residence: "Different house, same county," "Different county, same State," and "Different State." The last group may be further subdivided into region of residence in 1985. The category, "Abroad," includes those persons who were residing in a foreign country, Puerto Rico, or an outlying area of the U.S. in 1985, including members of the Armed Forces and their dependents. Some tabulations show movers who were residing in Puerto Rico or an outlying area in 1985 separately from those residing in other countries.

In tabulations for metropolitan areas, movers are categorized according to the metropolitan status of their current and previous residences, resulting in such groups as movers within an MSA/PMSA, movers between MSA/PMSA's, movers from nonmetropolitan areas to MSA/PMSA, and movers from central cities to the remainder of an MSA/PMSA. In some tabulations, these categories are further subdivided by size of MSA/PMSA, region of current or previous residence, or movers within or between central cities and the remainder of the same or a different MSA/PMSA.

The size categories used in some tabulations for both 1985 and 1990 residence refer to the populations of the MSA/PMSA on April 1, 1990; that is, at the end of the migration interval.

Some tabulations present data on immigrants, outmigrants, and net migration. "Immigrants" are generally defined as those persons who entered a specified area by crossing its boundary from some point outside the area. In some tabulations, movers from abroad are included in the number of immigrants; in others, only movers within the United States are included.

"Outmigrants" are persons who depart from a specific area by crossing its boundary to a point outside it, but without leaving the United States. "Net migration" is calculated by subtracting the number of outmigrants from the number of immigrants and, depending upon the particular tabulation, may or may not include movers from abroad. The net migration for the area is net immigration if the result was positive and net outmigration if the result was negative. In the tabulations, net outmigration is indicated by a minus sign (-).

Immigrants and outmigrants for States include only those persons who did not live in the same State in 1985 and 1990; that is, they exclude persons who moved between counties within the same State. Thus, the sum of the immigrants to (or outmigrants from) all counties in any State is greater than the number of immigrants to (or outmigrants from) that State. However, in the case of net migration, the sum of the nets for all the counties within a State equal the net for the State. In the same fashion, the net migration for a division or region equals the sum of the nets for the States comprising that division or region, while the number of immigrants and outmigrants for that division or region is less than the sum of the immigrants or outmigrants for the individual States.

The number of persons who were living in a different house in 1985 is somewhat less than the total number of moves during the 5-year period. Some persons in the same house at the two dates had moved during the 5-year period but by the time of the census had returned to their 1985 residence. Other persons who were living in a different house had made one or more intermediate moves. For similar reasons, the number of persons living in a different county, MSA/PMSA, or State or moving between nonmetropolitan areas may be understated.

Comparability—Similar questions were asked on all previous censuses beginning in 1940, except the questions in 1950 referred to residence 1 year earlier rather than 5 years earlier. Although the questions in the 1940 census covered a 5-year period, comparability with that census was reduced somewhat because of different definitions and categories of tabulation. Comparability with the 1960 and 1970 census is also somewhat reduced because nonresponse was not allocated in those earlier censuses. For the 1980 census, nonresponse was allocated in a manner similar to the 1990 allocation scheme.

SCHOOL ENROLLMENT AND LABOR FORCE STATUS

Tabulation of data on enrollment, educational attainment, and labor force status for the population 16 to 19 years old allows for calculation of the proportion of the age group who are not enrolled in school and not high school graduates or “dropouts” and an unemployment rate for the “dropout” population. Definitions of the three topics and descriptions of the census items from which they were derived are presented in “Educational Attainment,” “Employment Status,” and “School Enrollment and Type of School.” The published tabulations include both the civilian and Armed Forces populations, but labor force status is provided for the civilian population only. Therefore, the component labor force statuses may not add to the total lines *enrolled in school, high school graduate, and not high school graduate*. The difference is Armed Forces.

Comparability—The tabulation of school enrollment by labor force status is similar to that published in 1980 census reports. The 1980 census tabulation included a single data line for Armed Forces; however, enrollment, attainment, and labor force status data were shown for the civilian population only. In 1970, a tabulation was included for 16 to 21 year old males not attending school.

SCHOOL ENROLLMENT AND TYPE OF SCHOOL

Data on school enrollment were derived from answers to questionnaire item 11, which was asked of a sample of persons. Persons were classified as enrolled in school if they reported attending a “regular” public or private school or college at any time between February 1, 1990, and the time of enumeration. The question included instructions to “include only nursery school, kindergarten, elementary school, and schooling which would lead to a high school diploma or a college degree” as regular school. Instructions included in the 1990 respondent instruction guide, which was mailed with the census questionnaire, further specified that enrollment in a trade or business school, company training, or tutoring were not to be included unless the course would be accepted for credit at a regular elementary school, high school, or college. Persons who did not answer the enrollment question were assigned the enrollment status and type of school of a person with the same age, race or Hispanic origin, and, at older ages, sex, whose residence was in the same or a nearby area.

Public and Private School—Includes persons who attended school in the reference period and indicated they were enrolled by marking one of the questionnaire categories for either “public school, public college” or “private school, private college.” The instruction guide defines a public school as “any school or college controlled and supported by a local, county, State, or Federal Government.” Schools supported and controlled primarily by religious organizations or other private groups are defined as private. Persons who filled both the “public” and “private” circles are edited to the first entry, “public.”

Level of School in Which Enrolled—Persons who were enrolled in school were classified as enrolled in “preprimary school,” “elementary or high school,” or “college” according to their response to question 12 (years of school completed or highest degree received). Persons who were enrolled and reported completing nursery school or less were classified as enrolled in “preprimary school,” which includes kindergarten. Similarly, enrolled persons who had completed at least kindergarten, but not high school, were classified as enrolled in elementary or high school. Enrolled persons who reported completing high school or some college or having received a post-secondary degree were classified as enrolled in “college.” Enrolled persons who reported completing the twelfth grade but receiving “NO DIPLOMA” were classified as enrolled in high school. (For more information on level of school, see the discussion under “Educational Attainment.”)

Comparability—School enrollment questions have been included in the census since 1840; grade attended was first asked in 1940; type of school was first asked in 1960. Before 1940, the enrollment question in various censuses referred to attendance in the preceding six months or the preceding year. In 1940, the reference was to attendance in the month preceding the census, and in the 1950 and subsequent censuses, the question referred to attendance in the two months preceding the census date.

Until the 1910 census, there were no instructions limiting the kinds of schools in which enrollment was to be counted. Starting in 1910, the instructions indicated that attendance at “school, college, or any educational institution” was to be counted. In 1930 an instruction to include “night school” was added. In the 1940 instructions, night school, extension school, or vocational school were included only if the school was part of the regular school system. Correspondence school work of any kind was excluded. In the 1950 instructions, the term “regular school” was introduced, and it was defined as schooling which “advances a person towards an elementary or high school diploma or a college, university, or professional school degree.” Vocational, trade, or business schools were excluded unless they were graded and considered part of a regular school system. On-the-job training was excluded, as was nursery school. Instruction by correspondence was excluded unless it was given by a regular school and counted towards promotion.

In 1960, the question used the term “regular school or college” and a similar, though expanded, definition of “regular” was included in the instructions, which continued to exclude nursery school. Because of the census’ use of mailed questionnaires, the 1960 census was the first in which instructions were written for the respondent as well as enumerators. In the 1970 census, the questionnaire used the phrase “regular school or college” and included instructions to “count nursery school, kindergarten, and schooling which leads to an elementary school certificate, high school diploma, or college degree.” Instructions in a separate document specified that to be counted as regular

school, nursery school must include instruction as an important and integral phase of its program, and continued the exclusion of vocational, trade, and business schools. The 1980 census question was very similar to the 1970 question, but the separate instruction booklet did not require that nursery school include substantial instructional content in order to be counted.

The age range for which enrollment data have been obtained and published has varied over the censuses. Information on enrollment was recorded for persons of all ages in the 1930 and 1940 and 1970 through 1990; for persons under age 30, in 1950; and for persons age 5 to 34, in 1960. Most of the published enrollment figures referred to persons age 5 to 20 in the 1930 census, 5 to 24 in 1940, 5 to 29 in 1950, 5 to 34 in 1960, 3 to 34 in 1970, and 3 years old and over in 1980. This growth in the age group whose enrollment was reported reflects increased interest in the number of children in preprimary schools and in the number of older persons attending colleges and universities.

In the 1950 and subsequent censuses, college students were enumerated where they lived while attending college, whereas in earlier censuses, they generally were enumerated at their parental homes. This change should not affect the comparability of national figures on college enrollment since 1940; however, it may affect the comparability over time of enrollment figures at sub-national levels.

Type of school was first introduced in the 1960 census, where a separate question asked the enrolled persons whether they were in a "public" or "private" school. Since the 1970 census, the type of school was incorporated into the response categories for the enrollment question and the terms were changed to "public," "parochial," and "other private." In the 1980 census, "private, church related" and "private, not church related" replaced "parochial" and "other private."

Grade of enrollment was first available in the 1940 census, where it was obtained from responses to the question on highest grade of school completed. Enumerators were instructed that "for a person still in school, the last grade completed will be the grade preceding the one in which he or she was now enrolled." From 1950 to 1980, grade of enrollment was obtained from the highest grade attended in the two-part question used to measure educational attainment. (For more information, see the discussion under "Educational Attainment.") The form of the question from which level of enrollment was derived in the 1990 census most closely corresponds to the question used in 1940. While data from prior censuses can be aggregated to provide levels of enrollment comparable to the 1990 census, 1990 data cannot be disaggregated to show single grade of enrollment as in previous censuses.

Data on school enrollment were also collected and published by other Federal, State, and local government agencies. Where these data were obtained from administrative records of school systems and institutions of higher learning, they were only roughly comparable with data from population censuses and household surveys because of

differences in definitions and concepts, subject matter covered, time references, and enumeration methods. At the local level, the difference between the location of the institution and the residence of the student may affect the comparability of census and administrative data. Differences between the boundaries of school districts and census geographic units also may affect these comparisons.

SELF-CARE LIMITATION STATUS

The data on self-care limitation status were derived from answers to questionnaire item 19b, which was asked of a sample of persons 15 years old and over. Persons were identified as having a self-care limitation if they had a health condition that had lasted for 6 or more months and which made it difficult to take care of their own personal needs, such as dressing, bathing, or getting around inside the home.

The term "health condition" referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally was not considered a health condition.

Comparability—This was the first time that a question on self-care limitation was included in the census.

SEX

The data on sex were derived from answers to questionnaire item 3, which was asked of all persons. For most cases in which sex was not reported, it was determined by the appropriate entry from the person's given name and household relationship. Otherwise, sex was imputed according to the relationship to the householder and the age and marital status of the person. For more information on imputation, see Appendix C, Accuracy of the Data.

Sex Ratio—A measure derived by dividing the total number of males by the total number of females and multiplying by 100.

Comparability—A question on the sex of individuals has been asked of the total population in every census.

VETERAN STATUS

Data on veteran status, period of military service, and years of military service were derived from answers to questionnaire item 17, which was asked of a sample of persons.

Veteran Status—The data on veteran status were derived from responses to question 17a. For census data products, a "civilian veteran" is a person 16 years old or over who had served (even for a short time) but is not now

serving on active duty in the U.S. Army, Navy, Air Force, Marine Corps, or the Coast Guard, or who served as a Merchant Marine seaman during World War II. Persons who served in the National Guard or military Reserves are classified as veterans only if they were ever called or ordered to active duty not counting the 4-6 months for initial training or yearly summer camps. All other civilians 16 years old and over are classified as nonveterans.

Period of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to indicate in question 17b the period or periods in which they served. Persons serving in at least one wartime period are classified in their most recent wartime period. For example, persons who served both during the Korean conflict and the post-Korean peacetime era between February 1955 and July 1964 are classified in one of the two “Korean conflict” categories. If the same person had also served during the Vietnam era, he or she would instead be included in the “Vietnam era and Korean conflict” category. The responses were edited to eliminate inconsistencies between reported period(s) of service and the age of the person and to cancel out reported combinations of periods containing unreasonable gaps (for example, a person could not serve during World War I and the Korean conflict without serving during World War II). Note that the period of service categories shown in this report are mutually exclusive.

Years of Military Service—Persons who indicated in question 17a that they had served on active duty (civilian veterans) or were now on active duty were asked to report the total number of years of active-duty service in question 17c. The data were edited for consistency with responses to question 17b (Period of Military Service) and with the age of the person.

Limitation of the Data—There may be a tendency for the following kinds of persons to report erroneously that they served on active duty in the Armed Forces: (a) persons who served in the National Guard or military Reserves but were never called to active duty; (b) civilian employees or volunteers for the USO, Red Cross, or the Department of Defense (or its predecessor Departments, War and Navy); and (c) employees of the Merchant Marine or Public Health Service. There may also be a tendency for persons to erroneously round up months to the nearest year in question 17c (for example, persons with 1 year 8 months of active duty military service may mistakenly report “2 years”).

Comparability—Since census data on veterans were based on self-reported responses, they may differ from data from other sources such as administrative records of the Department of Defense. Census data may also differ from Veterans Administration data on the benefits-eligible population, since factors determining eligibility for veterans benefits differ from the rules for classifying veterans in the census.

The wording of the question on veteran status (17a) for 1990 was expanded from the veteran/not veteran question in 1980 to include questions on current active duty status and service in the military Reserves and the National Guard. The expansion was intended to clarify the appropriate response for persons in the Armed Forces and for persons who served in the National Guard or military Reserve units only. For the first time in a census, service during World War II as a Merchant Marine Seaman was considered active-duty military service and persons with such service were counted as veterans. An additional period of military service, “September 1980 or later” was added in 1990. As in 1970 and 1980, persons reporting more than one period of service are shown in the most recent wartime period of service category. Question 17c (Years of Military Service) was new for 1990.

WORK DISABILITY STATUS

The data on work disability were derived from answers to questionnaire item 18, which was asked of a sample of persons 15 years old and over. Persons were identified as having a work disability if they had a health condition that had lasted for 6 or more months and which limited the kind or amount of work they could do at a job or business. A person was limited in the kind of work he or she could do if the person had a health condition which restricted his or her choice of jobs. A person was limited in the amount of work if he or she was not able to work full-time. Persons with a work disability were further classified as “Prevented from working” or “Not prevented from working.”

The term “health condition” referred to both physical and mental conditions. A temporary health problem, such as a broken bone that was expected to heal normally, was not considered a health condition.

Comparability—The wording of the question on work disability was the same in 1990 as in 1980. Information on work disability was first collected in 1970. In that census, the work disability question did not contain a clause restricting the definition of disability to limitations caused by a health condition that had lasted 6 or more months; however, it did contain a separate question about the duration of the disability.

WORK STATUS IN 1989

The data on work status in 1989 were derived from answers to questionnaire item 31, which was asked of a sample of persons. Persons 16 years old and over who worked 1 or more weeks according to the criteria described below are classified as “Worked in 1989.” All other persons 16 years old and over are classified as “Did not work in 1989.” Some tabulations showing work status in 1989 include 15 year olds; these persons, by definition, are classified as “Did not work in 1989.”

Weeks Worked in 1989

The data on weeks worked in 1989 were derived from responses to questionnaire item 31b. Question 31b (Weeks Worked in 1989) was asked of persons 16 years old and over who indicated in question 31a that they worked in 1989.

The data pertain to the number of weeks during 1989 in which a person did any work for pay or profit (including paid vacation and paid sick leave) or worked without pay on a family farm or in a family business. Weeks of active service in the Armed Forces are also included.

Usual Hours Worked Per Week Worked in 1989

The data on usual hours worked per week worked in 1989 were derived from answers to questionnaire item 31c. This question was asked of persons 16 years old and over who indicated that they worked in 1989.

The data pertain to the number of hours a person usually worked during the weeks worked in 1989. The respondent was to report the number of hours worked per week in the majority of the weeks he or she worked in 1989. If the hours worked per week varied considerably during 1989, the respondent was to report an approximate average of the hours worked per week. The statistics on usual hours worked per week in 1989 are not necessarily related to the data on actual hours worked during the census reference week (question 21b).

Persons 16 years old and over who reported that they usually worked 35 or more hours each week during the weeks they worked are classified as "Usually worked full time;" persons who reported that they usually worked 1 to 34 hours are classified as "Usually worked part time."

Year-Round Full-Time Workers—All persons 16 years old and over who usually worked 35 hours or more per week for 50 to 52 weeks in 1989.

Number of Workers in Family in 1989—The term "worker" as used for these data is defined based on the criteria for Work Status in 1989.

Limitation of the Data—It is probable that the number of persons who worked in 1989 and the number of weeks worked are understated since there was some tendency for respondents to forget intermittent or short periods of employment or to exclude weeks worked without pay. There may also be a tendency for persons not to include weeks of paid vacation among their weeks worked; one result may be that the census figures may understate the number of persons who worked "50 to 52 weeks."

Comparability—The data on weeks worked collected in the 1990 census were comparable with data from the 1980, 1970, and 1960 censuses, but may not be entirely comparable with data from the 1940 and 1950 censuses. Since the 1960 census, two separate questions have been

used to obtain this information. The first identified persons with any work experience during the year and, thus, indicated those persons for whom the questions on number of weeks worked applied. In 1940 and 1950, however, the questionnaires contained only a single question on number of weeks worked.

In 1970, persons responded to the question on weeks worked by indicating one of six weeks-worked intervals. In 1980 and 1990, persons were asked to enter the specific number of weeks they worked.

YEAR OF ENTRY

The data on year of entry were derived from answers to questionnaire item 10, which was asked of a sample of persons. The question, "When did this person come to the United States to stay?" was asked of persons who indicated in the question on citizenship that they were not born in the United States. (For more information, see the discussion under "Citizenship.")

The 1990 census questions, tabulations, and census data products about citizenship and year of entry include no reference to immigration. All persons who were born and resided outside the United States before becoming residents of the United States have a date of entry. Some of these persons are U.S. citizens by birth (e.g., persons born in Puerto Rico or born abroad of American parents). To avoid any possible confusion concerning the date of entry of persons who are U.S. citizens by birth, the term, "year of entry" is used in this report instead of the term "year of immigration."

Limitation of the Data—The census questions on nativity, citizenship, and year of entry were not designed to measure the degree of permanence of residence in the United States. The phrase, "to stay" was used to obtain the year in which the person became a resident of the United States. Although the respondent was directed to indicate the year he or she entered the country "to stay," it was difficult to ensure that respondents interpreted the phrase correctly.

Comparability—A question on year of entry, (alternately called "year of immigration") was asked in each decennial census from 1890 to 1930, 1970, and 1980. In 1980, the question on year of entry included six arrival time intervals. The number of arrival intervals was expanded to ten in 1990. In 1980, the question on year of entry was asked only of the foreign-born population. In 1990, all persons who responded to the long-form questionnaire and were not born in the United States were to complete the question on year of entry.

HOUSING CHARACTERISTICS

LIVING QUARTERS

Living quarters are classified as either housing units or group quarters. (For more information, see the discussion of "Group Quarters" under Population Characteristics.)

Usually, living quarters are in structures intended for residential use (for example, a one-family home, apartment house, hotel or motel, boarding house, or mobile home). Living quarters also may be in structures intended for nonresidential use (for example, the rooms in a warehouse where a guard lives), as well as in places such as tents, vans, shelters for the homeless, dormitories, barracks, and old railroad cars.

Housing Units—A housing unit is a house, an apartment, a mobile home or trailer, a group of rooms or a single room occupied as separate living quarters or, if vacant, intended for occupancy as separate living quarters. Separate living quarters are those in which the occupants live and eat separately from any other persons in the building and which have direct access from outside the building or through a common hall.

The occupants may be a single family, one person living alone, two or more families living together, or any other group of related or unrelated persons who share living arrangements. For vacant units, the criteria of separateness and direct access are applied to the intended occupants whenever possible. If that information cannot be obtained, the criteria are applied to the previous occupants.

Both occupied and vacant housing units are included in the housing unit inventory, except that recreational vehicles, boats, vans, tents, railroad cars, and the like are included only if they are occupied as someone's usual place of residence. Vacant mobile homes are included provided they are intended for occupancy on the site where they stand. Vacant mobile homes on dealers' sales lots, at the factory, or in storage yards are excluded from the housing inventory.

If the living quarters contains nine or more persons unrelated to the householder or person in charge (a total of at least 10 unrelated persons), it is classified as group quarters. If the living quarters contains eight or fewer persons unrelated to the householder or person in charge, it is classified as a housing unit.

Occupied Housing Units—A housing unit is classified as occupied if it is the usual place of residence of the person or group of persons living in it at the time of enumeration, or if the occupants are only temporarily absent; that is, away on vacation or business. If all the persons staying in the unit at the time of the census have their usual place of residence elsewhere, the unit is classified as vacant. A household includes all the persons who occupy a housing unit as their usual place of residence. By definition, the count of occupied housing units for 100-percent tabulations is the same as the count of households or householders. In sample tabulations, the counts of household and occupied housing units may vary slightly because of different sample weighting methods.

Vacant Housing Units—A housing unit is vacant if no one is living in it at the time of enumeration, unless its occupants are only temporarily absent. Units temporarily occupied at the time of enumeration entirely by persons who have a usual residence elsewhere also are classified as vacant. (For more information, see discussion under "Usual Home Elsewhere.")

New units not yet occupied are classified as vacant housing units if construction has reached a point where all exterior windows and doors are installed and final usable floors are in place. Vacant units are excluded if they are open to the elements; that is, the roof, walls, windows, and/or doors no longer protect the interior from the elements, or if there is positive evidence (such as a sign on the house or in the block) that the unit is condemned or is to be demolished. Also excluded are quarters being used entirely for nonresidential purposes, such as a store or an office, or quarters used for the storage of business supplies or inventory, machinery, or agricultural products.

Hotels, Motels, Rooming Houses, Etc.—Occupied rooms or suites of rooms in hotels, motels, and similar places are classified as housing units only when occupied by permanent residents; that is, persons who consider the hotel as their usual place of residence or have no usual place of residence elsewhere. Vacant rooms or suites of rooms are classified as housing units only in those hotels, motels, and similar places in which 75 percent or more of the accommodations are occupied by permanent residents.

If any of the occupants in a rooming or boarding house live and eat separately from others in the building and have direct access, their quarters are classified as separate housing units.

Staff Living Quarters—The living quarters occupied by staff personnel within any group quarters are separate housing units if they satisfy the housing unit criteria of separateness and direct access; otherwise, they are considered group quarters.

Comparability—The first Census of Housing in 1940 established the "dwelling unit" concept. Although the term became "housing unit" and the definition has been modified slightly in succeeding censuses, the 1990 definition is essentially comparable to previous censuses. There was no change in the housing unit definition between 1980 and 1990.

ACREAGE

The data on acreage were obtained from questionnaire items H5a and H19a. Question H5a was asked at all occupied and vacant one-family houses and mobile homes. Question H19a was asked on a sample basis at occupied and vacant one-family houses and mobile homes.

Question H5a asks whether the house or mobile home is located on a place of 10 or more acres. The intent of this

item is to exclude owner-occupied and renter-occupied one-family houses on 10 or more acres from the specified owner- and renter-occupied universes for value and rent tabulations.

Question H19a provides data on whether the unit is located on less than 1 acre. The main purpose of this item, in conjunction with question H19b on agricultural sales, is to identify farm units. (For more information, see discussion under "Farm Residence.")

For both items, the land may consist of more than one tract or plot. These tracts or plots are usually adjoining; however, they may be separated by a road, creek, another piece of land, etc.

Comparability—Question H5a is similar to that asked in 1970 and 1980. This item was asked for the first time of mobile home occupants in 1990. Question H19a is an abbreviated form of a question asked on a sample basis in 1980. In previous censuses, information on city or suburban lot and number of acres was obtained also.

AGRICULTURAL SALES

Data on the sales of agricultural crops were obtained from questionnaire item H19b, which was asked on a sample basis at occupied one-family houses and mobile homes located on lots of 1 acre or more. Data for this item exclude units on lots of less than 1 acre, units located in structures containing 2 or more units, and all vacant units. This item refers to the total amount (before taxes and expenses) received in 1989 from the sale of crops, vegetables, fruits, nuts, livestock and livestock products, and nursery and forest products, produced on "this property." Respondents new to a unit were asked to estimate total agricultural sales in 1989 even if some portion of the sales had been made by other occupants of the unit.

This item is used mainly to classify housing units as farm or nonfarm residences, not to provide detailed information on the sale of agricultural products. Detailed information on the sale of agricultural products is provided by the Census Bureau's Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989). (For more information, see the discussion under "Farm Residence.")

BEDROOMS

The data on bedrooms were obtained from questionnaire item H9, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. The number of bedrooms is the count of rooms designed to be used as bedrooms; that is, the number of rooms that would be listed as bedrooms if the house or apartment were on the market for sale or for rent. Included are all rooms intended to be used as bedrooms even if

they currently are being used for some other purpose. A housing unit consisting of only one room, such as a one-room efficiency apartment, is classified, by definition, as having no bedroom.

Comparability—Data on bedrooms have been collected in every census since 1960. In 1970 and 1980, data for bedrooms were shown only for year-round units. In past censuses, a room was defined as a bedroom if it was used mainly for sleeping even if also used for other purposes. Rooms that were designed to be used as bedrooms but used mainly for other purposes were not considered to be bedrooms. A distribution of housing units by number of bedrooms calculated from data collected in a 1986 test showed virtually no differences in the two versions except in the two bedroom category, where the previous "use" definition showed a slightly lower proportion of units.

BOARDED-UP STATUS

Boarded-up status was obtained from questionnaire item C2 and was determined for all vacant units. Boarded-up units have windows and doors covered by wood, metal, or masonry to protect the interior and to prevent entry into the building. A single-unit structure, a unit in a multi-unit structure, or an entire multi-unit structure may be boarded-up in this way. For certain census data products, boarded-up units are shown only for units in the "Other vacant" category. A unit classified as "Usual home elsewhere" can never be boarded up. (For more information, see the discussion under "Usual Home Elsewhere.")

Comparability—This item was first asked in the 1980 census and was shown only for year-round vacant housing units. In 1990, data are shown for all vacant housing units.

BUSINESS ON PROPERTY

The data for business on property were obtained from questionnaire item H5b, which was asked at all occupied and vacant one-family houses and mobile homes. This question is used to exclude owner-occupied one-family houses with business or medical offices on the property from certain statistics on financial characteristics.

A business must be easily recognizable from the outside. It usually will have a separate outside entrance and have the appearance of a business, such as a grocery store, restaurant, or barber shop. It may be either attached to the house or mobile home or be located elsewhere on the property. Those housing units in which a room is used for business or professional purposes and have no recognizable alterations to the outside are *not* considered as having a business. Medical offices are considered businesses for tabulation purposes.

Comparability—Data on business on property have been collected since 1940.

CONDOMINIUM FEE

The data on condominium fee were obtained from questionnaire item H25, which was asked at owner-occupied condominiums. This item was asked on a sample basis. A condominium fee normally is charged monthly to the owners of the individual condominium units by the condominium owners association to cover operating, maintenance, administrative, and improvement costs of the common property (grounds, halls, lobby, parking areas, laundry rooms, swimming pool, etc.) The costs for utilities and/or fuels may be included in the condominium fee if the units do not have separate meters.

Data on condominium fees may include real estate tax and/or insurance payments for the common property, but do not include real estate taxes or fire, hazard, and flood insurance for the individual unit already reported in questions H21 and H22.

Amounts reported were the regular monthly payment, even if paid by someone outside the household or remain unpaid. Costs were estimated as closely as possible when exact costs were not known.

The data from this item were added to payments for mortgages (both first and junior mortgages and home equity loans); real estate taxes; fire, hazard, and flood insurance payments; and utilities and fuels to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for condominium owners.

Comparability—This is a new item in 1990.

CONDOMINIUM STATUS

The data on condominium housing units were obtained from questionnaire item H18, which was asked on a sample basis at both occupied and vacant housing units. Condominium is a type of ownership that enables a person to own an apartment or house in a development of similarly owned units and to hold a common or joint ownership in some or all of the common areas and facilities such as land, roof, hallways, entrances, elevators, swimming pool, etc. Condominiums may be single-family houses as well as units in apartment buildings. A condominium unit need not be occupied by the owner to be counted as such. A unit classified as "mobile home or trailer" or "other" (see discussion under "Units in Structure") cannot be a condominium unit.

Limitation of the Data—Testing done prior to the 1980 and 1990 censuses indicated that the number of condominiums may be slightly overstated.

Comparability—In 1970, condominiums were grouped together with cooperative housing units, and the data were reported only for owner-occupied cooperatives and condominiums. Beginning in 1980, the census identified all

condominium units and the data were shown for renter-occupied and vacant year-round condominiums as well as owner occupied. In 1970 and 1980, the question on condominiums was asked on a 100-percent basis. In 1990, it was asked on a sample basis.

CONTRACT RENT

The data on contract rent (also referred to as "rent asked" for vacant units) were obtained from questionnaire item H7a, which was asked at all occupied housing units that were rented for cash rent and all vacant housing units that were for rent at the time of enumeration.

Housing units that are renter occupied without payment of cash rent are shown separately as "No cash rent" in census data products. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. Rent-free houses or apartments may be provided to compensate caretakers, ministers, tenant farmers, sharecroppers, or others.

Contract rent is the monthly rent agreed to or contracted for, regardless of any furnishings, utilities, fees, meals, or services that may be included. For vacant units, it is the monthly rent asked for the rental unit at the time of enumeration.

If the contract rent includes rent for a business unit or for living quarters occupied by another household, the respondent was instructed to report that part of the rent estimated to be for his or her unit only. Respondents were asked to report rent only for the housing unit enumerated and to exclude any rent paid for additional units or for business premises.

If a renter pays rent to the owner of a condominium or cooperative, and the condominium fee or cooperative carrying charge is also paid by the renter to the owner, the respondent was instructed to include the fee or carrying charge.

If a renter receives payments from lodgers or roomers who are listed as members of the household, the respondent was instructed to report the rent without deduction for any payments received from the lodgers or roomers. The respondent was instructed to report the rent agreed to or contracted for even if paid by someone else such as friends or relatives living elsewhere, or a church or welfare agency.

In some tabulations, contract rent is presented for all renter-occupied housing units, as well as specified renter-occupied and vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information on rent, see the discussion under "Gross Rent.")

Median and Quartile Contract Rent—The median divides the rent distribution into two equal parts. Quartiles divide the rent distribution into four equal parts. In computing median and quartile contract rent, units reported as "No

cash rent” are excluded. Median and quartile rent calculations are rounded to the nearest whole dollar. (For more information on medians and quartiles, see the discussion under “Derived Measures.”)

Aggregate Contract Rent—To calculate aggregate contract rent, the amount assigned for the category “Less than \$80” is \$50. The amount assigned to the category “\$1,000 or more” is \$1,250. Mean contract rent is rounded to the nearest whole dollar. (For more information on aggregates and means, see the discussion under “Derived Measures.”)

Limitation of the Data—In the 1970 and 1980 censuses, contract rent for vacant units had high allocation rates, about 35 percent.

Comparability—Data on this item have been collected since 1930. For 1990, quartiles were added because the range of rents and values in the United States has increased in recent years. Upper and lower quartiles can be used to note large rent and value differences among various geographic areas.

DURATION OF VACANCY

The data for duration of vacancy (also referred to as “months vacant”) were obtained from questionnaire item D, which was completed by census enumerators. The statistics on duration of vacancy refer to the length of time (in months and years) between the date the last occupants moved from the unit and the time of enumeration. The data, therefore, do not provide a direct measure of the total length of time units remain vacant.

For newly constructed units which have never been occupied, the duration of vacancy is counted from the date construction was completed. For recently converted or merged units, the time is reported from the date conversion or merger was completed. Units occupied by an entire household with a usual home elsewhere are assigned to the “Less than 1 month” interval.

Comparability—Similar data have been collected since 1960. In 1970 and 1980, these data were shown only for year-round vacant housing units. In 1990, these data are shown for all vacant housing units.

FARM RESIDENCE

The data on farm residence were obtained from questionnaire items H19a and H19b. An occupied one-family house or mobile home is classified as a farm residence if: (1) the housing unit is located on a property of 1 acre or more, and (2) at least \$1,000 worth of agricultural products were sold from the property in 1989. Group quarters and housing units that are in multi-unit buildings or vacant are not included as farm residences.

A one-family unit occupied by a tenant household paying cash rent for land and buildings is enumerated as a farm residence only if sales of agricultural products from its yard (as opposed to the general property on which it is located) amounted to at least \$1,000 in 1989. A one-family unit occupied by a tenant household that does not pay cash rent is enumerated as a farm residence if the remainder of the farm (including its yard) qualifies as a farm.

Farm residence is provided as an independent data item only for housing units located in rural areas. It may be derived for housing units in urban areas from the data items on acreage and sales of agricultural products on the public-use microdata sample (PUMS) files. (For more information on PUMS, see Appendix F, Data Products and User Assistance.)

The farm population consists of persons in households living in farm residences. Some persons who are counted on a property classified as a farm (including in some cases farm workers) are excluded from the farm population. Such persons include those who reside in multi-unit buildings or group quarters.

Comparability—These are the same criteria that were used to define a farm residence in 1980. In 1960 and 1970, a farm was defined as a place of 10 or more acres with at least \$50 worth of agricultural sales or a place of less than 10 acres with at least \$250 worth of agricultural sales. Earlier censuses used other definitions. Note that the definition of a farm residence differs from the definition of a farm in the Census of Agriculture (*Factfinder for the Nation: Agricultural Statistics*, Bureau of the Census, 1989).

GROSS RENT

Gross rent is the contract rent plus the estimated average monthly cost of utilities (electricity, gas, and water) and fuels (oil, coal, kerosene, wood, etc.) if these are paid for by the renter (or paid for the renter by someone else). Gross rent is intended to eliminate differentials which result from varying practices with respect to the inclusion of utilities and fuels as part of the rental payment. The estimated costs of utilities and fuels are reported on a yearly basis but are converted to monthly figures for the tabulations. Renter units occupied without payment of cash rent are shown separately as “No cash rent” in the tabulations. Gross rent is calculated on a sample basis.

Comparability—Data on gross rent have been collected since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

GROSS RENT AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

Gross rent as a percentage of household income in 1989 is a computed ratio of monthly gross rent to monthly household income (total household income in 1989 divided by 12). The ratio was computed separately for each unit and was rounded to the nearest whole percentage. Units for which no cash rent is paid and units occupied by households that reported no income or a net loss in 1989 comprise the category "Not computed." This item is calculated on a sample basis.

HOUSE HEATING FUEL

The data on house heating fuel were obtained from questionnaire item H14, which was asked at occupied housing units. This item was asked on a sample basis. The data show the type of fuel used most to heat the house or apartment.

Utility Gas—Includes gas piped through underground pipes from a central system to serve the neighborhood.

Bottled, Tank, or LP Gas—Includes liquid propane gas stored in bottles or tanks which are refilled or exchanged when empty.

Fuel Oil, Kerosene, Etc.—Includes fuel oil, kerosene, gasoline, alcohol, and other combustible liquids.

Wood—Includes purchased wood, wood cut by household members on their property or elsewhere, driftwood, saw-mill or construction scraps, or the like.

Solar Energy—Includes heat provided by sunlight which is collected, stored, and actively distributed to most of the rooms.

Other Fuel—Includes all other fuels not specified elsewhere.

No Fuel Used—Includes units that do not use any fuel or that do not have heating equipment.

Comparability—Data on house heating fuel have been collected since 1940. The category, "Solar energy" is new for 1990.

INSURANCE FOR FIRE, HAZARD, AND FLOOD

The data on fire, hazard, and flood insurance were obtained from questionnaire item H22, which was asked at a sample of owner-occupied one-family houses, condominiums, and mobile homes. The statistics for this item refer to the annual premium for fire, hazard, and flood insurance on

the property (land and buildings); that is, policies that protect the property and its contents against loss due to damage by fire, lightning, winds, hail, flood, explosion, and so on.

Liability policies are included only if they are paid with the fire, hazard, and flood insurance premiums and the amounts for fire, hazard, and flood cannot be separated. Premiums are included even if paid by someone outside the household or remain unpaid. When premiums are paid on other than a yearly basis, the premiums are converted to a yearly basis.

The payment for fire, hazard, and flood insurance is added to payments for real estate taxes, utilities, fuels, and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

A separate question (H23d) determines whether insurance premiums are included in the mortgage payment to the lender(s). This makes it possible to avoid counting these premiums twice in the computations.

Comparability—Data on payment for fire and hazard insurance were collected for the first time in 1980. Flood insurance was not specifically mentioned in the wording of the question in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

KITCHEN FACILITIES

Data on kitchen facilities were obtained from questionnaire item H11, which was asked at both occupied and vacant housing units. A unit has complete kitchen facilities when it has all of the following: (1) an installed sink with piped water, (2) a range, cook top and convection or microwave oven, or cookstove, and (3) a refrigerator. All kitchen facilities must be located in the structure. They need not be in the same room. Portable cooking equipment is not considered a range or cookstove. An ice box is not considered to be a refrigerator.

Comparability—Data on complete kitchen facilities were collected for the first time in 1970. Earlier censuses collected data on individual components, such as kitchen sink and type of refrigeration equipment. In 1970 and 1980, data for kitchen facilities were shown only for year-round units. In 1990, data are shown for all housing units.

MEALS INCLUDED IN RENT

The data on meals included in the rent were obtained from questionnaire item H7b, which was asked of all

occupied housing units that were rented for cash and all vacant housing units that were for rent at the time of enumeration.

The statistics on meals included in rent are presented for specified renter-occupied and specified vacant-for-rent units. Specified renter-occupied and specified vacant-for-rent units exclude one-family houses on 10 or more acres. (For more information, see the discussion under "Contract Rent.")

Comparability—This is a new item in 1990. It is intended to measure "congregate" housing, which generally is considered to be housing units where the rent includes meals and other services, such as transportation to shopping and recreation.

MOBILE HOME COSTS

The data on mobile home costs were obtained from questionnaire item H26, which was asked at owner-occupied mobile homes. This item was asked on a sample basis.

These data include the total yearly costs for personal property taxes, land or site rent, registration fees, and license fees on all owner-occupied mobile homes. The instructions are to not include real estate taxes already reported in question H21.

Costs are estimated as closely as possible when exact costs are not known. Amounts are the total for an entire 12-month billing period, even if they are paid by someone outside the household or remain unpaid.

The data from this item are added to payments for mortgages, real estate taxes, fire, hazard, and flood insurance payments, utilities, and fuels to derive selected monthly owner costs for mobile homes owners.

Comparability—This item is new for 1990.

MORTGAGE PAYMENT

The data on mortgage payment were obtained from questionnaire item H23b, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. This item was asked on a sample basis. Question H23b provides the regular monthly amount required to be paid the lender for the first mortgage (deed of trust, contract to purchase, or similar debt) on the property. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

The amounts reported include everything paid to the lender including principal and interest payments, real estate taxes, fire, hazard, and flood insurance payments, and mortgage insurance premiums. Separate questions determine whether real estate taxes and fire, hazard, and flood

insurance payments are included in the mortgage payment to the lender. This makes it possible to avoid counting these components twice in the computation of "Selected Monthly Owner Costs."

Comparability—Information on mortgage payment was collected for the first time in 1980. It was collected only at owner-occupied one-family houses. Excluded were mobile homes, condominiums, houses with a business or medical office on the property, one-family houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions on monthly mortgage payments were asked of all owner-occupied one-family houses, including one-family houses on 10 or more acres. They were also asked at mobile homes, condominiums, and one-family houses with a business or medical office.

The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from a single question. Two questions were used in 1990; one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages or home equity loans. (For more information, see the discussion under "Second or Junior Mortgage Payment.")

MORTGAGE STATUS

The data on mortgage status were obtained from questionnaire items H23a and H24a, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. "Mortgage" refers to all forms of debt where the property is pledged as security for repayment of the debt. It includes such debt instruments as deeds of trust, trust deeds, contracts to purchase, land contracts, junior mortgages and home equity loans.

A mortgage is considered a first mortgage if it has prior claim over any other mortgage or if it is the only mortgage on the property. All other mortgages, (second, third, etc.) are considered junior mortgages. A home equity loan is generally a junior mortgage. If no first mortgage is reported, but a junior mortgage or home equity loan is reported, then the loan is considered a first mortgage.

In most census data products, the tabulations for "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" usually are shown separately for units "with a mortgage" and for units "not mortgaged." The category "not mortgaged" is comprised of housing units owned free and clear of debt.

Comparability—A question on mortgage status was included in the 1940 and 1950 censuses, but not in the 1960 and 1970 censuses. The item was reinstated in 1980 along with a separate question dealing with the existence of second or junior mortgages. In 1980, the mortgage status questions were asked at owner-occupied one-family houses on less than 10 acres. Excluded were mobile homes,

condominiums, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the questions were asked of all one-family owner-occupied housing units, including houses on 10 or more acres. They were also asked at mobile homes, condominiums, and houses with a business or medical office.

PERSONS IN UNIT

This item is based on the 100-percent count of persons in occupied housing units. All persons occupying the housing unit are counted, including the householder, occupants related to the householder, and lodgers, roomers, boarders, and so forth.

The data on "persons in unit" show the number of housing units occupied by the specified number of persons. The phrase "persons in unit" is used for housing tabulations, "persons in households" for population items. Figures for "persons in unit" match those for "persons in household" for 100-percent data products. In sample products, they may differ because of the weighting process.

Median Persons in Unit—In computing median persons in unit, a whole number is used as the midpoint of an interval; thus, a unit with 4 persons is treated as an interval ranging from 3.5 to 4.5 persons. Median persons is rounded to the nearest hundredth. (For more information on medians, see the discussion under "Derived Measures.")

Persons in Occupied Housing Units—This is the total population minus those persons living in group quarters. "Persons per occupied housing unit" is computed by dividing the population living in housing units by the number of occupied housing units.

PERSONS PER ROOM

"Persons per room" is obtained by dividing the number of persons in each occupied housing unit by the number of rooms in the unit. Persons per room is rounded to the nearest hundredth. The figures shown refer, therefore, to the number of occupied housing units having the specified ratio of persons per room.

Mean Persons Per Room—This is computed by dividing persons in housing units by the aggregate number of rooms. This is intended to provide a measure of utilization. A higher mean may indicate a greater degree of utilization or crowding; a low mean may indicate under-utilization. (For more information on means, see the discussion under "Derived Measures.")

PLUMBING FACILITIES

The data on plumbing facilities were obtained from questionnaire item H10, which was asked at both occupied and vacant housing units. This item was asked on a

sample basis. Complete plumbing facilities include hot and cold piped water, a flush toilet, and a bathtub or shower. All three facilities must be located inside the house, apartment, or mobile home, but not necessarily in the same room. Housing units are classified as lacking complete plumbing facilities when any of the three facilities are not present.

Comparability—The 1990 data on complete plumbing facilities are not strictly comparable with the 1980 data. In 1980, complete plumbing facilities were defined as hot and cold piped water, a bathtub or shower, and a flush toilet in the housing unit for the exclusive use of the residents of that unit. In 1990, the Census Bureau dropped the requirement of exclusive use from the definition of complete plumbing facilities. Of the 2.3 million year-round housing units classified in 1980 as lacking complete plumbing for exclusive use, approximately 25 percent of these units had complete plumbing but the facilities were also used by members of another household. From 1940 to 1970, separate and more detailed questions were asked on piped water, bathing, and toilet facilities. In 1970 and 1980, the data on plumbing facilities were shown only for year-round units.

POVERTY STATUS OF HOUSEHOLDS IN 1989

The data on poverty status of households were derived from answers to the income questions. The income items were asked on a sample basis. Households are classified below the poverty level when the total 1989 income of the family or of the nonfamily householder is below the appropriate poverty threshold. The income of persons living in the household who are unrelated to the householder is not considered when determining the poverty status of a household, nor does their presence affect the household size in determining the appropriate poverty threshold. The poverty thresholds vary depending upon three criteria: size of family, number of children, and age of the family householder or unrelated individual for one and two-persons households. (For more information, see the discussion of "Poverty Status in 1989" and "Income in 1989" under Population Characteristics.)

REAL ESTATE TAXES

The data on real estate taxes were obtained from questionnaire item H21, which was asked at owner-occupied one-family houses, condominiums, and mobile homes. The statistics from this question refer to the total amount of all real estate taxes on the entire property (land and buildings) payable in 1989 to all taxing jurisdictions, including special assessments, school taxes, county taxes, and so forth.

Real estate taxes include State, local, and all other real estate taxes even if delinquent, unpaid, or paid by someone who is not a member of the household. However, taxes due from prior years are not included. If taxes are paid on other than a yearly basis, the payments are converted to a yearly basis.

The payment for real estate taxes is added to payments for fire, hazard, and flood insurance; utilities and fuels; and mortgages (both first and junior mortgages and home equity loans) to derive "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989." A separate question (H23c) determines whether real estate taxes are included in the mortgage payment to the lender(s). This makes it possible to avoid counting taxes twice in the computations.

Comparability—Data for real estate taxes were collected for the first time in 1980. The question was asked only at owner-occupied one-family houses. Excluded were mobile homes or trailers, condominiums, houses with a business or medical office on the property, houses on 10 or more acres, and housing units in multi-unit buildings. In 1990, the question was asked of all one-family owner-occupied houses, including houses on 10 or more acres. It also was asked at mobile homes, condominiums, and one-family houses with a business or medical office on the property.

ROOMS

The data on rooms were obtained from questionnaire item H3, which was asked at both occupied and vacant housing units. The statistics on rooms are in terms of the number of housing units with a specified number of rooms. The intent of this question is to count the number of whole rooms used for living purposes.

For each unit, rooms include living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, enclosed porches suitable for year-round use, and lodger's rooms. Excluded are strip or pullman kitchens, bathrooms, open porches, balconies, halls or foyers, half-rooms, utility rooms, unfinished attics or basements, or other unfinished space used for storage. A partially divided room is a separate room only if there is a partition from floor to ceiling, but not if the partition consists solely of shelves or cabinets.

Median Rooms—This measure divides the room distribution into two equal parts, one-half of the cases falling below the median number of rooms and one-half above the median. In computing median rooms, the whole number is used as the midpoint of the interval; thus, the category "3 rooms" is treated as an interval ranging from 2.5 to 3.5 rooms. Median rooms is rounded to the nearest tenth. (For more information on medians, see the discussion under "Derived Measures.")

Aggregate Rooms—To calculate aggregate rooms, an arbitrary value of "10" is assigned to rooms for units falling within the terminal category, "9 or more." (For more information on aggregates and means, see the discussion under "Derived Measures.")

Comparability—Data on rooms have been collected since 1940. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are shown for all housing units.

SECOND OR JUNIOR MORTGAGE PAYMENT

The data on second or junior mortgage payments were obtained from questionnaire items H24a and H24b, which were asked at owner-occupied one-family houses, condominiums, and mobile homes. Question H24a asks whether a second or junior mortgage or a home equity loan exists on the property. Question H24b provides the regular monthly amount required to be paid to the lender on all second or junior mortgages and home equity loans. Amounts are included even if the payments are delinquent or paid by someone else. The amounts reported are included in the computation of "Selected Monthly Owner Costs" and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for units with a mortgage.

All mortgages other than first mortgages are classified as "junior" mortgages. A second mortgage is a junior mortgage that gives the lender a claim against the property that is second to the claim of the holder of the first mortgage. Any other junior mortgage(s) would be subordinate to the second mortgage. A home equity loan is a line of credit available to the borrower that is secured by real estate. It may be placed on a property that already has a first or second mortgage, or it may be placed on a property that is owned free and clear.

If the respondents answered that no first mortgage existed, but a second mortgage did (as in the above case with a home equity loan), a computer edit assigned the unit a first mortgage and made the first mortgage monthly payment the amount reported in the second mortgage. The second mortgage data were then made "No" in question H24a and blank in question H24b.

Comparability—The 1980 census obtained total regular monthly mortgage payments, including payments on second or junior mortgages, from one single question. Two questions were used in 1990: one for regular monthly payments on first mortgages, and one for regular monthly payments on second or junior mortgages and home equity loans.

SELECTED MONTHLY OWNER COSTS

The data on selected monthly owner costs were obtained from questionnaire items H20 through H26 for a sample of owner-occupied one-family houses, condominiums, and mobile homes. Selected monthly owner costs is the sum of payments for mortgages, deeds of trust, contracts to purchase, or similar debts on the property (including payments for the first mortgage, second or junior mortgages, and home equity loans); real estate taxes; fire, hazard, and flood insurance on the property; utilities (electricity, gas, and water); and fuels (oil, coal, kerosene, wood, etc.). It also includes, where appropriate, the monthly condominium fee for condominiums and mobile home costs (personal property taxes, site rent, registration fees, and license fees) for mobile homes.

In certain tabulations, selected monthly owner costs are presented separately for specified owner-occupied housing units (owner-occupied one-family houses on fewer than 10 acres without a business or medical office on the property), owner-occupied condominiums, and owner-occupied mobile homes. Data usually are shown separately for units "with a mortgage" and for units "not mortgaged."

Median Selected Monthly Owner Costs—This measure is rounded to the nearest whole dollar.

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The 1990 tabulations of selected monthly owner costs for specified owner-occupied housing units are virtually identical to 1980, the primary difference was the amounts of the first and second mortgages were collected in separate questions in 1990, while the amounts were collected in a single question in 1980. The component parts of the item were tabulated for mobile homes and condominiums for the first time in 1990.

In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

SELECTED MONTHLY OWNER COSTS AS A PERCENTAGE OF HOUSEHOLD INCOME IN 1989

The information on selected monthly owner costs as a percentage of household income in 1989 is the computed ratio of selected monthly owner costs to monthly household income in 1989. The ratio was computed separately for each unit and rounded to the nearest whole percentage. The data are tabulated separately for specified owner-occupied units, condominiums, and mobile homes.

Separate distributions are often shown for units "with a mortgage" and for units "not mortgaged." Units occupied by households reporting no income or a net loss in 1989 are included in the "not computed" category. (For more information, see the discussion under "Selected Monthly Owner Costs.")

Comparability—The components of selected monthly owner costs were collected for the first time in 1980. The tabulations of "Selected Monthly Owner Costs as a Percentage of Household Income in 1989" for specified owner-occupied housing units are comparable to 1980.

SEWAGE DISPOSAL

The data on sewage disposal were obtained from questionnaire item H16, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Housing units are either connected to a public sewer, to a septic tank or cesspool, or they dispose

of sewage by other means. A public sewer may be operated by a government body or by a private organization. A housing unit is considered to be connected to a septic tank or cesspool when the unit is provided with an underground pit or tank for sewage disposal. The category, "Other means" includes housing units which dispose of sewage in some other way.

Comparability—Data on sewage disposal have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

SOURCE OF WATER

The data on source of water were obtained from questionnaire item H15, which was asked at both occupied and vacant housing units. Housing units may receive their water supply from a number of sources. A common source supplying water to five or more units is classified as a "Public system or private company." The water may be supplied by a city, county, water district, water company, etc., or it may be obtained from a well which supplies water to five or more housing units. If the water is supplied from a well serving four or fewer housing units, the units are classified as having water supplied by either an "Individual drilled well" or an "Individual dug well." Drilled wells or small diameter wells are usually less than 1-1/2 feet in diameter. Dug wells are usually larger than 1-1/2 feet wide and generally hand dug. The category, "Some other source" includes water obtained from springs, creeks, rivers, lakes, cisterns, etc.

Comparability—Data on source of water have been collected since 1940. In 1970 and 1980, data were shown only for year-round housing units. In 1990, data are shown for all housing units.

TELEPHONE IN HOUSING UNIT

The data on telephones were obtained from questionnaire item H12, which was asked at occupied housing units. This item was asked on a sample basis. A telephone must be inside the house or apartment for the unit to be classified as having a telephone. Units where the respondent uses a telephone located inside the building but not in the respondent's living quarters are classified as having no telephone.

Comparability—Data on telephones in 1980 are comparable to 1990. The 1960 and 1970 censuses collected data on telephone availability. A unit was classified as having a telephone available if there was a telephone number on which occupants of the unit could be reached. The telephone could have been in another unit, in a common hall, or outside the building.

TENURE

The data for tenure were obtained from questionnaire item H4, which was asked at all occupied housing units. All occupied housing units are classified as either owner occupied or renter occupied.

Owner Occupied—A housing unit is owner occupied if the owner or co-owner lives in the unit even if it is mortgaged or not fully paid for. The owner or co-owner must live in the unit and usually is the person listed in column 1 of the questionnaire. The unit is "Owned by you or someone in this household with a mortgage or loan" if it is being purchased with a mortgage or some other debt arrangement such as a deed of trust, trust deed, contract to purchase, land contract, or purchase agreement. The unit is also considered owned with a mortgage if it is built on leased land and there is a mortgage on the unit.

A housing unit is "Owned by you or someone in this household free and clear (without a mortgage)" if there is no mortgage or other similar debt on the house, apartment, or mobile home including units built on leased land if the unit is owned outright without a mortgage. Although owner-occupied units are divided between mortgaged and owned free and clear on the questionnaire, census data products containing 100-percent data show only total owner-occupied counts. More extensive mortgage information was collected on the long-form questionnaire and are shown in census products containing sample data. (For more information, see the discussion under "Mortgage Status.")

Renter Occupied—All occupied housing units which are not owner occupied, whether they are rented for cash rent or occupied without payment of cash rent, are classified as renter occupied. "No cash rent" units are separately identified in the rent tabulations. Such units are generally provided free by friends or relatives or in exchange for services such as resident manager, caretaker, minister, or tenant farmer. Housing units on military bases also are classified in the "No cash rent" category. "Rented for cash rent" includes units in continuing care, sometimes called life care arrangements. These arrangements usually involve a contract between one or more individuals and a health services provider guaranteeing the individual shelter, usually a house or apartment, and services, such as meals or transportation to shopping or recreation.

Comparability—Data on tenure have been collected since 1890. In 1970, the question on tenure also included a category for condominium and cooperative ownership. In 1980, condominium units and cooperatives were dropped from the tenure item, and since 1980, only condominium units are identified in a separate question.

For 1990, the response categories were expanded to allow the respondent to report whether the unit was owned with a mortgage or free and clear (without a mortgage). The distinction between units owned with a mortgage and units owned free and clear was added in 1990 to improve

the count of owner-occupied units. Research after the 1980 census indicated some respondents did not consider their units owned if they had a mortgage.

UNITS IN STRUCTURE

The data on units in structure (also referred to as "type of structure") were obtained from questionnaire item H2, which was asked at all housing units. A structure is a separate building that either has open spaces on all sides or is separated from other structures by dividing walls that extend from ground to roof. In determining the number of units in a structure, all housing units, both occupied and vacant, are counted. Stores and office space are excluded.

The statistics are presented for the number of housing units in structures of specified type and size, not for the number of residential buildings.

1-Unit, Detached—This is a 1-unit structure detached from any other house; that is, with open space on all four sides. Such structures are considered detached even if they have an adjoining shed or garage. A one-family house that contains a business is considered detached as long as the building has open space on all four sides. Mobile homes or trailers to which one or more permanent rooms have been added or built also are included.

1-Unit, Attached—This is a 1-unit structure that has one or more walls extending from ground to roof separating it from adjoining structures. In row houses (sometimes called townhouses), double houses, or houses attached to non-residential structures, each house is a separate, attached structure if the dividing or common wall goes from ground to roof.

2 or More Units—These are units in structures containing 2 or more housing units, further categorized as units in structures with 2, 3 or 4, 5 to 9, 10 to 19, 20 to 49, and 50 or more units.

Mobile Home or Trailer—Both occupied and vacant mobile homes to which no permanent rooms have been added are counted in this category. Mobile homes or trailers used only for business purposes or for extra sleeping space and mobile homes or trailers for sale on a dealer's lot, at the factory, or in storage are not counted in the housing inventory.

Other—This category is for any living quarters occupied as a housing unit that does not fit the previous categories. Examples that fit this category are houseboats, railroad cars, campers, and vans.

Comparability—Data on units in structure have been collected since 1940 and on mobile homes and trailers since 1950. In 1970 and 1980, these data were shown only for year-round housing units. In 1990, these data are

shown for all housing units. In 1980, the data were collected on a sample basis. The category, "Boat, tent, van, etc." was replaced in 1990 by the category "Other." In some areas, the proportion of units classified as "Other" is far larger than the number of units that were classified as "Boat, tent, van, etc." in 1980.

USUAL HOME ELSEWHERE

The data for usual home elsewhere are obtained from questionnaire item B, which was completed by census employees. A housing unit temporarily occupied at the time of enumeration entirely by persons with a usual residence elsewhere is classified as vacant. The occupants are classified as having a "Usual home elsewhere" and are counted at the address of their usual place of residence. Typical examples are people in a vacation home, persons renting living quarters temporarily for work, and migrant workers.

Limitation of the Data—Evidence from previous censuses suggests that in some areas enumerators marked units as "vacant—usual home elsewhere" when they should have marked "vacant—regular."

Comparability—Data for usual home elsewhere was tabulated for the first time in 1980.

UTILITIES

The data on utility costs were obtained from questionnaire items H20a through H20d, which were asked of occupied housing units. These items were asked on a sample basis.

Questions H20a through H20d asked for the yearly cost of utilities (electricity, gas, water) and other fuels (oil, coal, wood, kerosene, etc.). For the tabulations, these yearly amounts are divided by 12 to derive the average monthly cost and are then included in the computation of "Gross Rent," "Gross Rent as a Percentage of Household Income in 1989," "Selected Monthly Owner Costs," and "Selected Monthly Owner Costs as a Percentage of Household Income in 1989."

Costs are recorded if paid by or billed to occupants, a welfare agency, relatives, or friends. Costs that are paid by landlords, included in the rent payment, or included in condominium or cooperative fees are excluded.

Limitation of the Data—Research has shown that respondents tended to overstate their expenses for electricity and gas when compared to utility company records. There is some evidence that this overstatement is reduced when yearly costs are asked rather than monthly costs. Caution should be exercised in using these data for direct analysis because costs are not reported for certain kinds of units

such as renter-occupied units with all utilities included in the rent and owner-occupied condominium units with utilities included in the condominium fee.

Comparability—The data on utility costs have been collected since 1980 for owner-occupied housing units, and since 1940 for renter-occupied housing units. In 1980, costs for electricity and gas were collected as average monthly costs. In 1990, all utility and fuel costs were collected as yearly costs and divided by 12 to provide an average monthly cost.

VACANCY STATUS

The data on vacancy status were obtained from questionnaire item C1, which was completed by census enumerators. Vacancy status and other characteristics of vacant units were determined by enumerators obtaining information from landlords, owners, neighbors, rental agents, and others. Vacant units are subdivided according to their housing market classification as follows:

For Rent—These are vacant units offered "for rent," and vacant units offered either "for rent" or "for sale."

For Sale Only—These are vacant units being offered "for sale only," including units in cooperatives and condominium projects if the individual units are offered "for sale only."

Rented or Sold, Not Occupied—If any money rent has been paid or agreed upon but the new renter has not moved in as of the date of enumeration, or if the unit has recently been sold but the new owner has not yet moved in, the vacant unit is classified as "rented or sold, not occupied."

For Seasonal, Recreational, or Occasional Use—These are vacant units used or intended for use only in certain seasons or for weekend or other occasional use throughout the year.

Seasonal units include those used for summer or winter sports or recreation, such as beach cottages and hunting cabins. Seasonal units also may include quarters for such workers as herders and loggers. Interval ownership units, sometimes called shared-ownership or time-sharing condominiums, also are included here.

For Migrant Workers—These include vacant units intended for occupancy by migratory workers employed in farm work during the crop season. (Work in a cannery, a freezer plant, or a food-processing plant is not farm work.)

Other Vacant—If a vacant unit does not fall into any of the classifications specified above, it is classified as "other vacant." For example, this category includes units held for occupancy by a caretaker or janitor, and units held for personal reasons of the owner.

Homeowner Vacancy Rate—This is the percentage relationship between the number of vacant units for sale and the total homeowner inventory. It is computed by dividing the number of vacant units for sale only by the sum of the owner-occupied units and the number of vacant units that are for sale only.

Rental Vacancy Rate—This is the percentage relationship of the number of vacant units for rent to the total rental inventory. It is computed by dividing the number of vacant units for rent by the sum of the renter-occupied units and the number of vacant units for rent.

Comparability—Data on vacancy status have been collected since 1940. For 1990, the category, “seasonal/recreational/occasional use” combined vacant units classified in 1980 as “seasonal or migratory” and “held for occasional use.” Also, in 1970 and 1980, housing characteristics generally were presented only for year-round units. In 1990, housing characteristics are shown for all housing units.

VALUE

The data on value (also referred to as “price asked” for vacant units) were obtained from questionnaire item H6, which was asked at housing units that were owned, being bought, or vacant for sale at the time of enumeration. Value is the respondent’s estimate of how much the property (house and lot, mobile home and lot, or condominium unit) would sell for if it were for sale. If the house or mobile home was owned or being bought, but the land on which it sits was not, the respondent was asked to estimate the combined value of the house or mobile home and the land. For vacant units, value was the price asked for the property.

Value was tabulated separately for all owner-occupied and vacant-for-sale housing units, owner-occupied and vacant-for-sale mobile homes or trailers, and specified owner-occupied and specified vacant-for-sale housing units. Specified owner-occupied and specified vacant-for-sale housing units include only one-family houses on fewer than 10 acres without a business or medical office on the property. The data for “specified units” exclude mobile homes, houses with a business or medical office, houses on 10 or more acres, and housing units in multi-unit buildings.

Median and Quartile Value—The median divides the value distribution into two equal parts. Quartiles divide the value distribution into four equal parts. These measures are rounded to the nearest hundred dollars. (For more information on medians and quartiles, see the discussion under “Derived Measures.”)

Aggregate Value—To calculate aggregate value, the amount assigned for the category “Less than \$10,000” is \$9,000. The amount assigned to the category “\$500,000 or more”

is \$600,000. Mean value is rounded to the nearest hundred dollars. (For more information on aggregates and means, see the discussion under “Derived Measures.”)

Comparability—In 1980, value was asked only at owner-occupied or vacant-for-sale one-family houses on fewer than 10 acres with no business or medical office on the property and at all owner-occupied or vacant-for-sale condominium housing units. Mobile homes were excluded. Value data were presented for specified owner-occupied housing units, specified vacant-for-sale-only housing units, and owner-occupied condominium housing units.

In 1990, the question was asked at all owner-occupied or vacant-for-sale-only housing units with no exclusions. Data presented for specified owner-occupied and specified vacant-for-sale-only housing units will include one-family condominium houses but not condominiums in multi-unit structures since condominium units are now identified only in long-form questionnaires.

For 1990, quartiles have been added because the range of values and rents in the United States has increased in recent years. Upper and lower quartiles can be used to note large value and rent differences among various geographic areas.

VEHICLES AVAILABLE

The data on vehicles available were obtained from questionnaire item H13, which was asked at occupied housing units. This item was asked on a sample basis. These data show the number of households with a specified number of passenger cars, vans, and pickup or panel trucks of one-ton capacity or less kept at home and available for the use of household members. Vehicles rented or leased for one month or more, company vehicles, and police and government vehicles are included if kept at home and used for nonbusiness purposes. Dismantled or immobile vehicles are excluded. Vehicles kept at home but used only for business purposes also are excluded.

Vehicles Per Household—This is computed by dividing aggregate vehicles available by the number of occupied housing units.

Limitation of the Data—The 1980 census evaluations showed that the number of automobiles was slightly overreported; the number of vans and trucks slightly underreported. The statistics do not measure the number of vehicles privately owned or the number of households owning vehicles.

Comparability—Data on automobiles available were collected from 1960 to 1980. In 1980, a separate question also was asked on the number of trucks and vans. The data on automobiles and trucks and vans were presented

separately and also as a combined vehicles available tabulation. The 1990 data are comparable to the 1980 vehicles available tabulations.

YEAR HOUSEHOLDER MOVED INTO UNIT

The data on year householder moved into unit were obtained from questionnaire item H8, which was asked at occupied housing units. This item was asked on a sample basis. These data refer to the year of the latest move by the householder. If a householder moved back into a housing unit he or she previously occupied, the year of the latest move was reported. If the householder moved from one apartment to another within the same building, the year the householder moved into the present apartment was reported. The intent is to establish the year the present occupancy by the householder began. The year that the householder moved in is not necessarily the same year other members of the household moved, although in the great majority of cases an entire household moves at the same time.

Comparability—In 1960 and 1970, this question was asked of every person and included in population reports. This item in housing tabulations refers to the year the householder moved in. In 1980 and 1990, the question was asked only of the householder.

YEAR STRUCTURE BUILT

The data on year structure built were obtained from questionnaire item H17, which was asked at both occupied and vacant housing units. This item was asked on a sample basis. Data on year structure built refer to when the building was first constructed, not when it was remodeled, added to, or converted. For housing units under construction that met the housing unit definition—that is, all exterior windows, doors, and final usable floors were in place—the category “1989 or March 1990” was used. For a houseboat or a mobile home or trailer, the manufacturer’s model year was assumed to be the year built. The figures shown in census data products relate to the number of units built during the specified periods that were still in existence at the time of enumeration.

Median Year Structure Built—The median divides the distribution into two equal parts. The median is rounded to the nearest calendar year. Median age of housing can be obtained by subtracting median year structure built from 1990. For example, if the median year structure built is 1957, the median age of housing in that area is 33 years (1990 minus 1957).

Limitation of the Data—Data on year structure built are more susceptible to errors of response and nonreporting than data on many other items because respondents must rely on their memory or on estimates by persons who have

lived in the neighborhood a long time. Available evidence indicates there is underreporting in the older-year-structure-built categories, especially “Built in 1939 or earlier.” The introduction of the “Don’t know” category (see the discussion on “Comparability”) may have resulted in relatively higher allocation rates. Data users should refer to the discussion in Appendix C, Accuracy of the Data, and to the allocation tables.

Comparability—Data on year structure built were collected for the first time in the 1940 census. Since then, the response categories have been modified to accommodate the 10-year period between each census. In 1990, the category, “Don’t Know,” was added in an effort to minimize the response error mentioned in the paragraph above on limitation of the data.

DERIVED MEASURES

Census data products include various derived measures, such as medians, means, and percentages, as well as certain rates and ratios. Derived measures that round to less than 0.1 are not shown but indicated as zero. In printed reports, zero is indicated by a dash (–).

Interpolation

Interpolation frequently is used in calculating medians or quartiles based on interval data and in approximating standard errors from tables. Linear interpolation is used to estimate values of a function between two known values. “Pareto interpolation” is an alternative to linear interpolation. It is used by the Census Bureau in calculating median income within intervals wider than \$2,500. In Pareto interpolation, the median is derived by interpolating between the logarithms of the upper and lower income limits of the median category.

Mean

This measure represents an arithmetic average of a set of values. It is derived by dividing the sum of a group of numerical items (or aggregate) by the total number of items. Aggregates are used in computing mean values. For example, mean family income is obtained by dividing the aggregate of all income reported by persons in families by the total number of families. (Additional information on means and aggregates is included in the separate explanations of many population and housing subjects.)

Median

This measure represents the middle value in a distribution. The median divides the total frequency into two equal parts: one-half of the cases fall below the median and one-half of the cases exceed the median. The median is

computed on the basis of the distribution as tabulated, which is sometimes more detailed than the distribution shown in specific census publications and other data products.

In reports, if the median falls within the upper interval of the tabulation distribution, the median is shown as the initial value of the interval followed by a plus sign (+); if within the lower interval, the median is shown as the upper value of the category followed by a minus sign (-). For summary tape files, if the median falls within the upper or lower interval, it is set to a specified value. (Additional information on medians is included in the separate explanations of many population and housing subjects.)

Percentages, Rates, and Ratios

These measures are frequently presented in census products to compare two numbers or two sets of measurements. These comparisons are made in two ways: (1)

subtraction, which provides an absolute measure of the difference between two items, and (2) the quotient of two numbers, which provides a relative measure of difference.

Quartile

This measure divides a distribution into four equal parts. The first quartile (or lower quartile) is the value that defines the upper limit of the lowest one-quarter of the cases. The second quartile is the median. The third quartile (or upper quartile) defines the lower limit of the upper one-quarter of the cases in the distribution. The difference between the upper and lower quartiles is called the interquartile range. This interquartile range is less affected by wide variations than is the mean. Quartiles are presented for certain financial characteristics such as housing value and rent.

APPENDIX C.

Accuracy of the Data

CONTENTS

Confidentiality of the Data	C-1
Editing of Unacceptable Data	C-9
Errors in the Data	C-2
Estimation Procedure	C-5
Sample Design	C-1

INTRODUCTION

The data contained in this data product are based on the 1990 census sample. The data are estimates of the actual figures that would have been obtained from a complete count. Estimates derived from a sample are expected to be different from the 100-percent figures because they are subject to sampling and nonsampling errors. Sampling error in data arises from the selection of persons and housing units to be included in the sample. Nonsampling error affects both sample and 100-percent data, and is introduced as a result of errors that may occur during the collection and processing phases of the census. Provided below is a detailed discussion of both types of errors and a description of the estimation procedures.

SAMPLE DESIGN

Every person and housing unit in the United States was asked certain basic demographic and housing questions (for example, race, age, marital status, housing value, or rent). A sample of these persons and housing units was asked more detailed questions about such items as income, occupation, and housing costs in addition to the basic demographic and housing information. The primary sampling unit for the 1990 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. Persons in group quarters were sampled at a 1-in-6 rate.

The sample designation method depended on the data collection procedures. Approximately 95 percent of the population was enumerated by the mailback procedure. In these areas, the Bureau of the Census either purchased a commercial mailing list, which was updated by the United States Postal Service and Census Bureau field staff, or prepared a mailing list by canvassing and listing each address in the area prior to Census Day. These lists were computerized and the appropriate units were electronically designated as sample units. The questionnaires were either mailed or hand-delivered to the addresses with instructions to complete and mail back the form.

Housing units in governmental units with a precensus (1988) estimated population of fewer than 2,500 persons were sampled at 1-in-2. Governmental units were defined for sampling purposes as all incorporated places, all counties, all county equivalents such as parishes in Louisiana, and all minor civil divisions in Connecticut, Maine, Massachusetts, Michigan, Minnesota, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, and Wisconsin. Housing units in census tracts and block numbering areas (BNA's) with a precensus housing unit count below 2,000 housing units were sampled at 1-in-6 for those portions not in small governmental units (governmental units with a population less than 2,500). Housing units within census tracts and BNA's with 2,000 or more housing units were sampled at 1-in-8 for those portions not in small governmental units.

In list/enumerate areas (about 5 percent of the population), each enumerator was given a blank address register with designated sample lines. Beginning about Census Day, the enumerator systematically canvassed an assigned area and listed all housing units in the address register in the order they were encountered. Completed questionnaires, including sample information for any housing unit listed on a designated sample line, were collected. For all governmental units with fewer than 2,500 persons in list/enumerate areas, a 1-in-2 sampling rate was used. All other list/enumerate areas were sampled at 1-in-6.

Housing units in American Indian reservations, tribal jurisdiction statistical areas, and Alaska Native villages were sampled according to the same criteria as other governmental units, except the sampling rates were based on the size of the American Indian and Alaska Native population in those areas as measured in the 1980 census. Trust lands were sampled at the same rate as their associated American Indian reservations. Census designated places in Hawaii were sampled at the same rate as governmental units because the Census Bureau does not recognize incorporated places in Hawaii.

The purpose of using variable sampling rates was to provide relatively more reliable estimates for small areas and decrease respondent burden in more densely populated areas while maintaining data reliability. When all sampling rates were taken into account across the Nation, approximately one out of every six housing units in the Nation was included in the 1990 census sample.

CONFIDENTIALITY OF THE DATA

To maintain the confidentiality required by law (Title 13, United States Code), the Bureau of the Census applies a confidentiality edit to the 1990 census data to assure that

published data do not disclose information about specific individuals, households, or housing units. As a result, a small amount of uncertainty is introduced into the estimates of census characteristics. The sample itself provides adequate protection for most areas for which sample data are published since the resulting data are estimates of the actual counts; however, small areas require more protection. The edit is controlled so that the basic structure of the data is preserved.

The confidentiality edit is implemented by selecting a small subset of individual households from the internal sample data files and blanking a subset of the data items on these household records. Responses to those data items were then imputed using the same imputation procedures that were used for nonresponse. A larger subset of households is selected for the confidentiality edit for small areas to provide greater protection for these areas. The editing process is implemented in such a way that the quality and usefulness of the data were preserved.

ERRORS IN THE DATA

Since statistics in this data product are based on a sample, they may differ somewhat from 100-percent figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The sample estimate also would differ from other samples of housing units, persons within those housing units, and persons living in group quarters. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a sample estimate is a measure of the variation among the estimates from all the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. Described below is the method of calculating standard errors and confidence intervals for the data in this product.

In addition to the variability which arises from the sampling procedures, both sample data and 100-percent data are subject to nonsampling error. Nonsampling error may be introduced during any of the various complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Error" in this appendix.

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data and should therefore be reflected in the standard error. Errors that tend to be consistent in one

direction will make both sample and 100-percent data biased in that direction. For example, if respondents consistently tend to under-report their income, then the resulting counts of households or families by income category will tend to be understated for the higher income categories and overstated for the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

Totals and Percentages—Tables A through C in this appendix contain the information necessary to calculate the standard errors of sample estimates in this data product. To calculate the standard error, it is necessary to know the basic standard error for the characteristic (given in table A or B) that would result under a simple random sample design (of persons, households, or housing units) and estimation technique; the design factor for the particular characteristic estimated (given in table C); and the number of persons or housing units in the tabulation area and the percent of these in the sample. For machine-readable products, the percent-in-sample is included in a data matrix on the file for each tabulation area. In printed reports, the percent-in-sample is provided in data tables at the end of the statistical tables that compose the report. The design factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1990 census. Tape purchasers will receive table C, the table of design factors, as a supplement to the technical documentation. Table C is included in this appendix for printed reports.

The steps given below should be used to calculate the standard error of an estimate of a total or a percentage contained in this product. A percentage is defined here as a ratio of a numerator to a denominator where the numerator is a subset of the denominator. For example, the proportion of Black teachers is the ratio of Black teachers to all teachers.

1. Obtain the standard error from table A or B (or use the formula given below the table) for the estimated total or percentage, respectively.
2. Find the geographic area to which the estimate applies in the appropriate percent-in-sample table or appropriate matrix, and obtain the person or housing unit "percent-in-sample" figure for this area. Use the person "percent-in-sample" figure for person and family characteristics. Use the housing unit "percent-in-sample" figure for housing unit characteristics.
3. Use table C to obtain the design factor for the characteristic (for example, employment status, school enrollment) and the range that contains the percent-in-sample with which you are working. Multiply the basic standard error by this factor.

The unadjusted standard errors of zero estimates or of very small estimated totals or percentages will approach zero. This is also the case for very large percentages or

estimated totals that are close to the size of the tabulation areas to which they correspond. Nevertheless, these estimated totals and percentages still are subject to sampling and nonsampling variability, and an estimated standard error of zero (or a very small standard error) is not appropriate. For estimated percentages that are less than 2 or greater than 98, use the basic standard errors in table B that appear in the "2 or 98" row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use a basic standard error of 16.

An illustration of the use of the tables is given in the section entitled "Use of Tables to Compute Standard Errors."

Sums and Differences—The standard errors estimated from these tables are not directly applicable to sums of and differences between two sample estimates. To estimate the standard error of a sum or difference, the tables are to be used somewhat differently in the following three situations:

1. For the sum of or difference between a sample estimate and a 100-percent value, use the standard error of the sample estimate. The complete count value is not subject to sampling error.
2. For the sum of or difference between two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors:

$SE_{\hat{X}}$ and $SE_{\hat{Y}}$ of estimates \hat{X} and \hat{Y} :

$$SE_{(\hat{X} + \hat{Y})} = SE_{(\hat{X} - \hat{Y})} = \sqrt{(SE_{\hat{X}})^2 + (SE_{\hat{Y}})^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or from a census sample and another survey. The standard error for estimates not based on the 1990 census sample must be obtained from an appropriate source outside of this appendix.

3. For the differences between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest. For example, to determine the estimate of non-Black teachers, one may subtract the estimate of Black teachers from the estimate of total teachers. To determine the standard error of the estimate of non-Black teachers apply the above formula directly.

Ratios—Frequently, the statistic of interest is the ratio of two variables, where the numerator is not a subset of the

denominator. For example, the ratio of teachers to students in public elementary schools. The standard error of the ratio between two sample estimates is estimated as follows:

1. If the ratio is a proportion, then follow the procedure outlined for "Totals and Percentages."
2. If the ratio is not a proportion, then approximate the standard error using the formula below.

$$SE_{(\hat{X}/\hat{Y})} = \frac{\hat{X}}{\hat{Y}} \sqrt{\frac{(SE_{\hat{X}})^2}{\hat{X}^2} + \frac{(SE_{\hat{Y}})^2}{\hat{Y}^2}}$$

Medians—For the standard error of the median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as $N/2$). Treat $N/2$ as if it were an ordinary estimate and obtain its standard error as instructed above. Compute the desired confidence interval about $N/2$. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about $N/2$. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, continue cumulating frequencies until the sum equals or exceeds the count in excess of the upper limit of the interval about $N/2$. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

When interpolation is required in the upper open-ended interval of a distribution to obtain a confidence bound, use 1.5 times the lower limit of the open-ended confidence interval as the upper limit of the open-ended interval.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1990 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

1. Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples;

2. Approximately 90 percent of the intervals from 1.645 times the estimated standard error below the estimate to 1.645 times the estimated standard error above the estimate would contain the average result from all possible samples.
3. Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent, 90 percent, and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability of confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the 100-percent value).

Confidence intervals also may be constructed for the ratio, sum of, or difference between two sample figures. This is done by first computing the ratio, sum, or difference, then obtaining the standard error of the ratio, sum, or difference (using the formulas given earlier), and finally forming a confidence interval for this estimated ratio, sum, or difference as above. One can then say with specified confidence that this interval includes the ratio, sum, or difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given in this appendix do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68, 90, or 95 percent). Thus, some care must be exercised in the interpretation of the data in this data product based on the estimated standard errors.

A standard sampling theory text should be helpful if the user needs more information about confidence intervals and nonsampling errors.

Use of Tables to Compute Standard Errors

The following is a hypothetical example of how to compute a standard error of a total and a percentage. Suppose a particular data table shows that for City A 9,948 persons out of all 15,888 persons age 16 years and over were in the civilian labor force. The percent-in-sample

table lists City A with a percent-in-sample of 16.0 percent (Persons column). The column in table C which includes 16.0 percent-in-sample shows the design factor to be 1.1 for "Employment status."

The basic standard error for the estimated total 9,948 may be obtained from table A or from the formula given below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. Suppose that the total population of City A was 21,220. The formula for the basic standard error, SE, is

$$SE(9,948) = \sqrt{5(9,948) (1 - 9,948 / 21,220)}$$

$$= 163 \text{ persons.}$$

The standard error of the estimated 9,948 persons 16 years and over who were in the civilian labor force is found by multiplying the basic standard error 163 by the design factor, 1.1 from table C. This yields an estimated standard error of 179 for the total number of persons 16 years and over in City A who were in the civilian labor force.

The estimated percent of persons 16 years and over who were in the civilian labor force in City A is 62.6. From table B, the unadjusted standard error is found to be approximately 0.85 percentage points. The standard error for the estimated 62.6 percent of persons 16 years and over who were in the civilian labor force is $0.85 \times 1.1 = 0.94$ percentage points.

A note of caution concerning numerical values is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than two decimal places when the estimated standard error is one percentage point (i.e., 1.00) or more.

In the previous example, the standard error of the 9,948 persons 16 years and over in City A who were in the civilian labor force was found to be 179. Thus, a 90 percent confidence interval for this estimated total is found to be:

$$[9,948 - 1.645(179)] \text{ to } [9,948 + 1.645(179)]$$

or

$$9,654 \text{ to } 10,242$$

One can say, with about 90 percent confidence, that this interval includes the value that would have been obtained by averaging the results from all possible samples.

The following is an illustration of the calculation of standard errors and confidence intervals when a difference between two sample estimates is obtained. For example, suppose the number of persons in City B age 16 years and over who were in the civilian labor force was 9,314 and the total number of persons 16 years and over was 16,666. Further suppose the population of City B was 25,225. Thus, the estimated percentage of persons 16 years and over who were in the civilian labor force is 55.9 percent. The unadjusted standard error determined using the formula provided at the bottom of table B is 0.86

percentage points. We find that City B had a percent-in-sample of 15.7. The range which includes 15.7 percent-in-sample in table C shows the design factor to be 1.1 for "Employment Status." Thus, the approximate standard error of the percentage (55.9 percent) is $0.86 \times 1.1 = 0.95$ percentage points.

Now suppose that one wished to obtain the standard error of the difference between City A and City B of the percentages of persons who were 16 years and over and who were in the civilian labor force. The difference in the percentages of interest for the two cities is:

$$62.6 - 55.9 = 6.7 \text{ percent.}$$

Using the results of the previous example:

$$\begin{aligned} SE(6.7) &= \sqrt{(SE(62.6))^2 + (SE(55.9))^2} = \sqrt{(0.94)^2 + (0.95)^2} \\ &= 1.34 \text{ percentage points} \end{aligned}$$

The 90 percent confidence interval for the difference is formed as before:

$$\begin{aligned} [6.70 - 1.645(1.34)] \text{ to } [6.70 + 1.645(1.34)] \\ \text{or} \\ 4.50 \text{ to } 8.90 \end{aligned}$$

One can say with 90 percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

For reasonably large samples, ratio estimates are normally distributed, particularly for the census population. Therefore, if we can calculate the standard error of a ratio estimate then we can form a confidence interval around the ratio. Suppose that one wished to obtain the standard error of the ratio of the estimate of persons who were 16 years and over and who were in the civilian labor force in City A to the estimate of persons who were 16 years and over and who were in the civilian labor force in City B. The ratio of the two estimates of interest is:

$$\begin{aligned} 9948/9314 &= 1.07 \\ SE(1.07) &= \left(\frac{9948}{9314}\right) \sqrt{\frac{179^2}{(9948)^2} + \frac{188^2}{(9314)^2}} \\ &= .029 \end{aligned}$$

Using the results above, the 90 percent confidence interval for this ratio would be:

$$\begin{aligned} [1.07 - 1.645(.029)] \text{ to } [1.07 + 1.645(.029)] \\ \text{or} \\ 1.02 \text{ to } 1.12 \end{aligned}$$

ESTIMATION PROCEDURE

The estimates which appear in this publication were obtained from an iterative ratio estimation procedure (iterative proportional fitting) resulting in the assignment of a weight to each sample person or housing unit record. For

any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units possessing the characteristic in the tabulation area. Estimates of family or household characteristics were based on the weight assigned to the family member designated as householder. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value 6, all characteristics of that person or housing unit would be tabulated with the weight of 6. The estimation procedure, however, did assign weights varying from person to person or housing unit to housing unit. The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas generally were formed of contiguous geographic units which agreed closely with census tabulation areas within counties. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas never crossed State or county boundaries. In small counties with a sample count below 400 persons, the minimum required sample condition was relaxed to permit the entire county to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in four stages. For persons, the first stage applied 17 household-type groups. The second stage used two groups: sampling rate of 1-in-2; sampling rate less than 1-in-2. The third stage used the dichotomy householders/nonhouseholders. The fourth stage applied 180 aggregate age-sex-race-Hispanic origin categories. The stages were as follows:

PERSONS

STAGE I: TYPE OF HOUSEHOLD

Group	Persons in Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Persons in Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit
	Persons in All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit
	Persons in Group Quarters
17	Persons in Group Quarters

STAGE II: SAMPLING RATES

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: HOUSEHOLDER/NONHOUSEHOLDER

1	Householder
2	Nonhouseholder

STAGE IV: AGE/SEX/RACE/HISPANIC ORIGIN

Group	White Persons of Hispanic Origin
	Male
1	0 to 4 years
2	5 to 14 years
3	15 to 19 years
4	20 to 24 years
5	25 to 34 years
6	35 to 54 years
7	55 to 64 years
8	65 to 74 years
9	75 years and over
	Female
10-18	Same age categories as groups 1 through 9.
	Persons Not of Hispanic Origin
19-36	Same sex and age categories as groups 1 through 18.
	Black
37-72	Same age/sex/Hispanic origin categories as groups 1 through 36.
	Asian or Pacific Islander
73-108	Same age/sex/Hispanic origin categories as groups 1 through 36.
	American Indian, Eskimo, or Aleut
109-144	Same age/sex/Hispanic origin categories as groups 1 through 36.
	Other Race (includes those races not listed above)
145-180	Same age/sex/Hispanic origin categories as groups 1 through 36.

Within a weighting area, the first step in the estimation procedure was to assign an initial weight to each sample person record. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure, prior to iterative proportional fitting, was to combine categories in each of the four estimation stages, when needed to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria for the unweighted sample count or for the ratio of the 100-percent to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern. At the fourth stage, an additional criterion concerning the number of complete count persons in each race/Hispanic origin category was applied.

As the final step, the initial weights underwent four stages of ratio adjustment applying the grouping procedures described above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight.

In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Next, at stage III, the stage II weights were adjusted by the ratio of the complete census count to the sum of the stage II weights for sample persons in each stage III group. Finally, at stage IV, the stage III weights were adjusted by the ratio of the complete census count to the sum of the stage III weights for sample persons in each stage IV group. The four stages of ratio adjustment were performed two times (two iterations) in the order given above. The weights obtained from the second iteration for stage IV were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight of the persons in a particular group was 7.25 then 1/4 of the sample persons in this group were randomly assigned a weight of 8, while the remaining 3/4 received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons, except that vacant units were treated differently. The occupied housing unit ratio estimation procedure was done in four stages, and the vacant housing unit ratio estimation procedure was done in a single stage. The first stage for occupied housing units applied 16 household type categories, while the second stage used the two sampling categories described above for persons. The third stage applied three units-in-structure categories; i.e. single units, multi-unit less than 10 and multi-unit 10 or more. The fourth stage could potentially use 200 tenure-race-Hispanic origin-value/rent groups. The stages for ratio estimation for housing units were as follows:

OCCUPIED HOUSING UNITS

STAGE I: TYPE OF HOUSEHOLD

Group	Housing Units With a Family With Own Children Under 18
1	2 persons in housing unit
2	3 persons in housing unit
3	4 persons in housing unit
4	5 to 7 persons in housing unit
5	8 or more persons in housing unit
	Housing Units With a Family Without Own Children Under 18
6-10	2 through 8 or more persons in housing unit

STAGE I: TYPE OF HOUSEHOLD—Con.

	All Other Housing Units
11	1 person in housing unit
12-16	2 through 8 or more persons in housing unit

STAGE II: SAMPLING RATE CATEGORY

1	Sampling rate of 1-in-2
2	Sampling rate less than 1-in-2

STAGE III: UNITS IN STRUCTURE

1	Single unit structure
2	Multi-unit structure consisting of fewer than 10 individual units
3	Multi-unit structure consisting of 10 or more individual units

STAGE IV: TENURE/RACE AND HISPANIC ORIGIN OF HOUSEHOLDER/VALUE OR RENT

Group	Owner
	White Householder
	Householder of Hispanic Origin
	Value
1	Less than \$20,000
2	\$20,000 to \$39,999
3	\$40,000 to \$59,999
4	\$60,000 to \$79,999
5	\$80,000 to \$99,999
6	\$100,000 to \$149,999
7	\$150,000 to \$249,999
8	\$250,000 to \$299,999
9	\$300,000 or more
10	Other ¹
	Householder Not of Hispanic Origin
11-20	Same value categories as groups 1 through 10
	Black Householder
21-40	Same Hispanic origin/value categories as groups 1 through 20
	Asian or Pacific Islander Householder
41-60	Same Hispanic origin/value categories as groups 1 through 20
	American Indian, Eskimo, or Aleut Householder
61-80	Same Hispanic origin/value categories as groups 1 through 20
	Householder of Other Race
81-100	Same Hispanic origin/value categories as groups 1 through 20

Renter

White Householder
Householder of Hispanic origin
Rent

101	Less than \$100
102	\$100 to \$199
103	\$200 to \$299
104	\$300 to \$399
105	\$400 to \$499
106	\$500 to \$599
107	\$600 to \$749
108	\$750 to \$999
109	\$1,000 or more
110	No cash rent

Householder Not of Hispanic Origin
Same rent categories as groups 101 through 110

Black Householder
Same Hispanic origin/rent categories as groups 101 through 120

Asian or Pacific Islander Householder

141-160
Same Hispanic origin/rent categories as groups 101 through 120

American Indian, Eskimo, or Aleut Householder

161-180
Same Hispanic origin/rent categories as groups 101 through 120

Householder of Other Race

181-200
Same Hispanic origin/rent categories as groups 101 through 120

Vacant Housing Units

1	Vacant for rent
2	Vacant for sale
3	Other vacant

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and if the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial, unadjusted weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

¹Value of units in this category results from other factors besides housing value alone, for example, inclusion of more than 10 acres of land, or presence of a business establishment on the premises.

Control of Nonsampling Error

As mentioned earlier, both sample and 100-percent data are subject to nonsampling error. This component of error could introduce serious bias into the data, and the total error could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from an operation as large and complex as the decennial census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. Described below are the primary sources of nonsampling error and the programs instituted for control of this error. The success of these programs, however, was contingent upon how well the instructions actually were carried out during the census. As part of the 1990 census evaluation program, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage—It is possible for some households or persons to be missed entirely by the census. The undercoverage of persons and housing units can introduce biases into the data.

Several coverage improvement programs were implemented during the development of the census address list and census enumeration and processing to minimize undercoverage of the population and housing units. These programs were developed based on experience from the 1980 census and results from the 1990 census testing cycle. In developing and updating the census address list, the Census Bureau used a variety of specialized procedures in different parts of the country.

- In the large urban areas, the Census Bureau purchased and geocoded address lists. Concurrent with geocoding, the United States Postal Service (USPS) reviewed and updated this list. After the postal check, census enumerators conducted a dependent canvass and update operation. In the fall of 1989, local officials were given the opportunity to examine block counts of address listings (local review) and identify possible errors. Prior to mailout, the USPS conducted a final review.
- In small cities, suburban areas, and selected rural parts of the country, the Census Bureau created the address list through a listing operation. The USPS reviewed and updated this list, and the Census Bureau reconciled USPS corrections and updated through a field operation. In the fall of 1989, local officials participated in reviewing block counts of address listings. Prior to mailout, the USPS conducted a final review.
- The Census Bureau (rather than the USPS) conducted a listing operation in the fall of 1989 and delivered census questionnaires in selected rural and seasonal housing areas in March of 1990. In some inner-city public housing developments, whose addresses had been obtained via the purchased address list noted above, census questionnaires were also delivered by Census Bureau enumerators.

Coverage improvement programs continued during and after mailout. A recheck of units initially classified as vacant or nonexistent improved further the coverage of persons and housing units. All local officials were given the opportunity to participate in a post-census local review, and census enumerators conducted an additional canvass. In addition, efforts were made to improve the coverage of unique population groups, such as the homeless and parolees/probationers. Computer and clerical edits and telephone and personal visit followup also contributed to improved coverage.

More extensive discussion of the programs implemented to improve coverage will be published by the Census Bureau when the evaluation of the coverage improvement program is completed.

Respondent and Enumerator Error—The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error, although the questions were phrased as clearly as possible based on precensus tests, and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency, and problems were followed up as necessary.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was monitored carefully. Field staff were prepared for their tasks by using standardized training packages that included hands-on experience in using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error—The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse—Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any imputation procedure using respondent data may not completely

reflect this difference either at the elemental level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing nonresponse. In the census, nonresponse was reduced substantially during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were imputed by the computer by using reported data for a person or housing unit with similar characteristics.

EDITING OF UNACCEPTABLE DATA

The objective of the processing operation is to produce a set of data that describes the population as accurately and clearly as possible. To meet this objective, questionnaires were edited during field data collection operations for consistency, completeness, and acceptability. Questionnaires also were reviewed by census clerks for omissions, certain specific inconsistencies, and population coverage. For example, write-in entries such as "Don't know" or "NA" were considered unacceptable. For some district offices, the initial edit was automated; however, for the majority of the district offices, it was performed by clerks. As a result of this operation, a telephone or personal visit followup was made to obtain missing information. Potential coverage errors were included in the followup, as well as a sample of questionnaires with omissions and/or inconsistencies.

Subsequent to field operations, remaining incomplete or inconsistent information on the questionnaires was assigned

using imputation procedures during the final automated edit of the collected data. Imputations, or computer assignments of acceptable codes in place of unacceptable entries or blanks, are needed most often when an entry for a given item is lacking or when the information reported for a person or housing unit on that item is inconsistent with other information for that same person or housing unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for persons or housing units with similar characteristics. The assignment of acceptable codes in place of blanks or unacceptable entries enhances the usefulness of the data.

Another way in which corrections were made during the computer editing process was through substitution; that is, the assignment of a full set of characteristics for a person or housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for the people within the household or the occupants were not listed on the questionnaire, a previously accepted household was selected as a substitute, and the full set of characteristics for the substitute was duplicated. The assignment of the full set of housing characteristics occurred when there was no housing information available. If the housing unit was determined to be occupied, the housing characteristics were assigned from a previously processed occupied unit. If the housing unit was vacant, the housing characteristics were assigned from a previously processed vacant unit.

Table A. Unadjusted Standard Error for Estimated Totals

[Based on a 1-in-6 simple random sample]

Estimated Total ¹	Size of publication area ²													
	500	1,000	2,500	5,000	10,000	25,000	50,000	100,000	250,000	500,000	1,000,000	5,000,000	10,000,000	25,000,000
50	16	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50	50
1,000	-	-	55	65	65	70	70	70	70	70	70	70	70	70
2,500	-	-	-	80	95	110	110	110	110	110	110	110	110	110
5,000	-	-	-	-	110	140	150	150	160	160	160	160	160	160
10,000	-	-	-	-	-	170	200	210	220	220	220	220	220	220
15,000	-	-	-	-	-	170	230	250	270	270	270	270	270	270
25,000	-	-	-	-	-	-	250	310	340	350	350	350	350	350
75,000	-	-	-	-	-	-	-	310	510	570	590	610	610	610
100,000	-	-	-	-	-	-	-	-	550	630	670	700	700	710
250,000	-	-	-	-	-	-	-	-	-	790	970	1 090	1 100	1 100
500,000	-	-	-	-	-	-	-	-	-	-	1 120	1 500	1 540	1 570
1,000,000	-	-	-	-	-	-	-	-	-	-	-	2 000	2 120	2 190
5,000,000	-	-	-	-	-	-	-	-	-	-	-	-	3 540	4 470
10,000,000	-	-	-	-	-	-	-	-	-	-	-	-	-	5 480

¹For estimated totals larger than 10,000,000, the standard error is somewhat larger than the table values. The formula given below should be used to calculate the standard error.

$$SE(\hat{Y}) = \sqrt{5\hat{Y}\left(1 - \frac{\hat{Y}}{N}\right)}$$

N = Size of area

\hat{Y} = Estimate of characteristic total

²The total count of persons in the area if the estimated total is a person characteristic, or the total count of housing units in the area if the estimated total is a housing unit characteristic.

Table B. Unadjusted Standard Error in Percentage Points for Estimated Percentage

[Based on a 1-in-6 simple random sample]

Estimated Percentage	Base of percentage ¹												
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000	500,000
2 or 98	1.4	1.1	1.0	0.8	0.6	0.4	0.4	0.3	0.2	0.1	0.1	0.1	0.1
5 or 95	2.2	1.8	1.5	1.3	1.0	0.7	0.6	0.5	0.3	0.2	0.2	0.1	0.1
10 or 90	3.0	2.4	2.1	1.7	1.3	0.9	0.8	0.7	0.4	0.3	0.2	0.1	0.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	0.9	0.8	0.5	0.4	0.3	0.2	0.1
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	0.9	0.6	0.4	0.3	0.2	0.1
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	0.6	0.4	0.3	0.2	0.1
30 or 70	4.6	3.7	3.2	2.6	2.0	1.4	1.2	1.0	0.6	0.5	0.3	0.2	0.1
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	0.7	0.5	0.3	0.2	0.2
50	5.0	4.1	3.5	2.9	2.2	1.6	1.3	1.1	0.7	0.5	0.4	0.2	0.2

¹For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error. This table should only be used for proportions, that is, where the numerator is a subset of the denominator.

$$SE(\hat{p}) = \sqrt{\frac{5}{B}\hat{p}(100 - \hat{p})}$$

B = Base of estimated percentage

\hat{p} = Estimated percentage

Table C. Standard Error Design Factors—Hawaii

[Percent of persons or housing units in sample]

Characteristic	Less than 15 percent	15 to 30 percent	30 to 45 percent	45 percent or more
POPULATION				
Age.....	1.2	1.0	0.6	0.5
Sex.....	1.2	1.0	0.6	0.5
Race.....	1.2	1.0	0.6	0.5
Hispanic origin (of any race).....	1.2	1.0	0.6	0.5
Marital status.....	1.1	1.0	0.6	0.5
Household type and relationship.....	1.3	1.1	0.6	0.5
Children ever born.....	2.7	2.5	1.3	1.1
Work disability and mobility limitation status.....	1.2	1.1	0.6	0.5
Ancestry.....	2.5	2.3	1.3	1.1
Place of birth.....	2.0	2.0	1.0	0.8
Citizenship.....	1.7	1.5	0.9	0.7
Residence in 1985.....	2.1	2.0	1.0	0.9
Year of entry.....	1.5	1.3	0.8	0.6
Language spoken at home and ability to speak English.....	1.6	1.4	0.8	0.7
Educational attainment.....	1.3	1.2	0.7	0.6
School enrollment.....	1.8	1.6	0.9	0.8
Type of residence (urban/rural).....	2.4	2.4	1.2	1.0
Household type.....	1.3	1.1	0.6	0.5
Family type.....	1.2	1.1	0.6	0.5
Group quarters.....	0.9	0.9	0.5	0.4
Subfamily type and presence of children.....	1.2	1.1	0.6	0.5
Employment status.....	1.3	1.1	0.6	0.5
Industry.....	1.3	1.1	0.7	0.5
Occupation.....	1.2	1.1	0.6	0.5
Class of worker.....	1.5	1.3	0.8	0.6
Hours per week and weeks worked in 1989.....	1.2	1.1	0.6	0.5
Number of workers in family.....	1.3	1.1	0.6	0.5
Place of work.....	1.6	1.4	0.8	0.7
Means of transportation to work.....	1.4	1.3	0.7	0.6
Travel time to work.....	1.3	1.2	0.7	0.6
Private vehicle occupancy.....	1.4	1.3	0.7	0.6
Time leaving home to go to work.....	1.3	1.2	0.7	0.5
Type of income in 1989.....	1.4	1.2	0.7	0.6
Household income in 1989.....	1.2	1.1	0.6	0.5
Family income in 1989.....	1.2	1.1	0.6	0.5
Poverty status in 1989 (persons).....	1.6	1.4	0.8	0.7
Poverty status in 1989 (families).....	1.2	1.0	0.6	0.5
Armed Forces and veteran status.....	1.5	1.3	0.8	0.6
HOUSING				
Age of householder.....	1.2	1.0	0.6	0.5
Race of householder.....	1.2	1.0	0.6	0.5
Hispanic origin of householder.....	1.2	1.0	0.6	0.5
Type of residence (urban/rural).....	1.1	1.1	0.5	0.4
Condominium status.....	1.2	1.1	0.6	0.5
Units in structure.....	1.2	1.1	0.6	0.5
Tenure.....	1.2	1.0	0.6	0.5
Occupancy status.....	1.2	1.0	0.6	0.5
Value.....	1.2	1.1	0.6	0.5
Gross rent.....	1.2	1.1	0.6	0.5
Household income in 1989.....	1.2	1.1	0.6	0.5
Year structure built.....	1.2	1.1	0.6	0.5
Rooms, bedrooms.....	1.2	1.1	0.6	0.5
Kitchen facilities.....	1.3	1.3	0.6	0.5
Source of water, plumbing facilities.....	1.3	1.2	0.6	0.5
Sewage disposal.....	1.2	1.1	0.6	0.5
House heating fuel.....	1.3	1.1	0.6	0.5
Telephone in housing unit.....	1.3	1.1	0.6	0.5
Vehicles available.....	1.2	1.1	0.6	0.5
Year householder moved into structure.....	1.2	1.1	0.6	0.5
Mortgage status and monthly mortgage costs.....	1.2	1.1	0.6	0.5
Mortgage status and selected monthly owner costs.....	1.2	1.0	0.6	0.5
Gross rent as a percentage of household income in 1989.....	1.2	1.1	0.6	0.5
Household income in 1989 by selected monthly owner costs as a percentage of income.....	1.2	1.1	0.6	0.5

APPENDIX D.

Collection and Processing Procedures

CONTENTS

Data Collection Procedures	D-2
Enumeration and Residence Rules	D-1
Processing Procedures	D-4

ENUMERATION AND RESIDENCE RULES

In accordance with census practice dating back to the first United States census in 1790, each person was to be enumerated as an inhabitant of his or her "usual residence" in the 1990 census. Usual residence is the place where the person lives and sleeps most of the time or considers to be his or her usual residence. This place is not necessarily the same as the person's legal residence or voting residence. In the vast majority of cases, however, the use of these different bases of classification would produce substantially the same statistics, although there might be appreciable differences for a few areas.

The implementation of this practice has resulted in the establishment of rules for certain categories of persons whose usual place of residence is not immediately apparent. Furthermore, this practice means that persons were not always counted as residents of the place where they happened to be staying on Census Day (April 1, 1990).

Enumeration Rules

Each person whose usual residence was in the United States was to be included in the census, without regard to the person's legal status or citizenship. In a departure from earlier censuses, foreign diplomatic personnel participated voluntarily in the census, regardless of their residence on or off the premises of an embassy. As in previous censuses, persons in the United States specifically excluded from the census were foreign travelers who had not established a residence.

Americans with a usual residence outside the United States were not enumerated in the 1990 census. United States military and Federal civilian employees, and their dependents overseas, are included in the population counts for States for purposes of Congressional apportionment, but are excluded from all other tabulations for States and their subdivisions. The counts of United States military and Federal civilian employees, and their dependents, were obtained from administrative records maintained by Federal departments and agencies. Other Americans living overseas, such as employees of international agencies

and private businesses and students, were not enumerated, nor were their counts obtained from administrative sources. On the other hand, Americans temporarily overseas were to be enumerated at their usual residence in the United States.

Residence Rules

Each person included in the census was to be counted at his or her usual residence—the place where he or she lives and sleeps most of the time or the place where the person considers to be his or her usual home. If a person had no usual residence, the person was to be counted where he or she was staying on April 1, 1990.

Persons temporarily away from their usual residence, whether in the United States or overseas, on a vacation or on a business trip, were counted at their usual residence. Persons who occupied more than one residence during the year were counted at the one they considered to be their usual residence. Persons who moved on or near Census Day were counted at the place they considered to be their usual residence.

Persons in the Armed Forces—Members of the Armed Forces were counted as residents of the area in which the installation was located, either on the installation or in the surrounding community. Family members of Armed Forces personnel were counted where they were living on Census Day (for example, with the Armed Forces person or at another location).

Each Navy ship not deployed to the 6th or 7th Fleet was attributed to the municipality that the Department of the Navy designated as its homeport. If the homeport included more than one municipality, ships berthed there on Census Day were assigned by the Bureau of the Census to the municipality in which the land immediately adjacent to the dock or pier was actually located. Ships attributed to the homeport, but not physically present and not deployed to the 6th or 7th Fleet, were assigned to the municipality named on the Department of the Navy's homeport list. These rules also apply to Coast Guard vessels.

Personnel assigned to each Navy and Coast Guard ship were given the opportunity to report a residence off the ship. Those who did report an off-ship residence in the communities surrounding the homeport were counted there; those who did not were counted as residents of the ship. Personnel on Navy ships deployed to the 6th or 7th Fleet on Census Day were considered to be part of the overseas population.

Persons on Maritime Ships—Persons aboard maritime ships who reported an off-ship residence were counted at that residence. Those who did not were counted as residents of the ship, and were attributed as follows:

1. The port where the ship was docked on Census Day, if that port was in the United States or its territories.
2. The port of departure if the ship was at sea, provided the port was in the United States or its territories.
3. The port of destination in the United States or its territories, if the port of departure of a ship at sea was a foreign port.
4. The overseas population if the ship was docked at a foreign port or at sea between foreign ports. (These persons were not included in the overseas population for apportionment purposes.)

Persons Away at School—College students were counted as residents of the area in which they were living while attending college, as they have been since the 1950 census. Children in boarding schools below the college level were counted at their parental home.

Persons in Institutions—Persons under formally authorized, supervised care or custody, such as in Federal or State prisons; local jails; Federal detention centers; juvenile institutions; nursing, convalescent, and rest homes for the aged and dependent; or homes, schools, hospitals, or wards for the physically handicapped, mentally retarded, or mentally ill, were counted at these places.

Persons Away From Their Usual Residence on Census Day—Migrant agricultural workers who did not report a usual residence elsewhere were counted as residents of the place where they were on Census Day. Persons in worker camps who did not report a usual residence elsewhere were counted as residents of the camp where they were on Census Day.

In some parts of the country, natural disasters displaced significant numbers of households from their usual place of residence. If these persons reported a destroyed or damaged residence as their usual residence, they were counted at that location.

Persons away from their usual residence were counted by means of interviews with other members of their families, resident managers, or neighbors.

DATA COLLECTION PROCEDURES

The 1990 census was conducted primarily through self-enumeration. The questionnaire packet included general information about the 1990 census and an instruction guide explaining how to complete the questionnaire. Spanish-language questionnaires and instruction guides were available on request. Instruction guides also were available in 32 other languages.

Enumeration of Housing Units

Each housing unit in the country received one of two versions of the census questionnaire:

1. A short-form questionnaire that contained a limited number of basic population and housing questions; these questions were asked of all persons and housing units and are often referred to as 100-percent questions.
2. A long-form questionnaire that contained the 100-percent items and a number of additional questions; a sampling procedure was used to determine those housing units that were to receive the long-form questionnaire.

Three sampling rates were employed. For slightly more than one-half of the country, one in every six housing units (about 17 percent) received the long-form or sample questionnaire. In functioning local governmental units (counties and incorporated places, and in some parts of the country, towns and townships) estimated to have fewer than 2,500 inhabitants, every other housing unit (50 percent) received the sample questionnaire in order to enhance the reliability of the sample data for these small areas. For census tracts and block numbering areas having more than 2,000 housing units in the Census Bureau's address files, one in every eight housing units (about 13 percent) received a sample questionnaire, providing reliable statistics for these areas while permitting the Census Bureau to stay within a limit of 17.7 million sample questionnaires, or a one-in-six sample, nationwide.

The mail-out/mail-back procedure was used mainly in cities, suburban areas, towns, and rural areas where mailing addresses consisted of a house number and street name. In these areas, the Census Bureau developed mailing lists that included about 88.4 million addresses. The questionnaires were delivered through the mail and respondents were to return them by mail. Census questionnaires were delivered 1 week before Census Day (April 1, 1990).

The update/leave/mail-back method was used mainly in densely populated rural areas where it was difficult to develop mailing lists because mailing addresses did *not* use house number and street name. The Census Bureau compiled lists of housing units in advance of the census. Enumerators delivered the questionnaires, asked respondents to return them by mail, and added housing units not on the mailing lists. This method was used mainly in the South and Midwest, and also included some high-rise, low-income urban areas. A variation of this method was used in urban areas having large numbers of boarded-up buildings. About 11 million housing units were enumerated using this method.

The list/enumerate method (formerly called conventional or door-to-door enumeration) was used mainly in very remote and sparsely-settled areas. The United States

Postal Service delivered unaddressed short-form questionnaires before Census Day. Starting a week before Census Day, enumerators canvassed these areas, checked that all housing units received a questionnaire, created a list of all housing units, completed long-form questionnaires, and picked up the completed short-form questionnaires. This method was used mainly in the West and Northeast to enumerate an estimated 6.5 million housing units.

Followup

Nonresponse Followup—In areas where respondents were to mail back their questionnaires, an enumerator visited each address from which a questionnaire was not received.

Coverage and Edit-Failure Followup—In the mail-back areas, some households returned a questionnaire that did not meet specific quality standards because of incomplete or inconsistent information, or the respondent had indicated difficulty in deciding who was to be listed on the questionnaire. These households were contacted by telephone or by personal visit to obtain the missing information or to clarify who was to be enumerated in the household. In areas where an enumerator picked up the questionnaires, the enumerator checked the respondent-filled questionnaire for completeness and consistency.

Special Enumeration Procedures

Special procedures and questionnaires were used for the enumeration of persons in group quarters, such as college dormitories, nursing homes, prisons, military barracks, and ships. The questionnaires (Individual Census Reports, Military Census Reports, and Shipboard Census Reports) included the 100-percent population questions but did not include any housing questions. In all group quarters, all persons were asked the basic population questions; in most group quarters, additional questions were asked of a sample (one-in-six) of persons.

Shelter and Street Night (S-Night)

The Census Bureau collected data for various components of the homeless population at different stages in the 1990 census. "Shelter and Street Night" (S-Night) was a special census operation to count the population in four types of locations where homeless people are found. On the evening of March 20, 1990, and during the early morning hours of March 21, 1990, enumerators counted persons in pre-identified locations:

1. Emergency shelters for the homeless population (public and private; permanent and temporary).
2. Shelters with temporary lodging for runaway youths.
3. Shelters for abused women and their children.

4. Open locations in streets or other places not intended for habitation.

Emergency shelters include all hotels and motels costing \$12 or less (excluding taxes) per night regardless of whether persons living there considered themselves to be homeless, hotels and motels (regardless of cost) used entirely to shelter homeless persons, and pre-identified rooms in hotels and motels used for homeless persons and families. Enumeration in shelters usually occurred from 6 p.m. to midnight; street enumeration, from 2 a.m. to 4 a.m.; abandoned and boarded-up buildings from 4 a.m. to 8 a.m.; and shelters for abused women, from 6 p.m. on March 20 to noon on March 21.

Other components, which some consider as part of the homeless population, were enumerated as part of regular census operations. These include persons doubled up with other families, as well as persons with no other usual home living in transient sites, such as commercial campgrounds, maternity homes for unwed mothers, and drug/alcohol abuse detoxification centers. In institutions, such as local jails and mental hospitals, the Census Bureau does not know who has a usual home elsewhere; therefore, even though some are literally homeless, these persons cannot be identified separately as a component of the homeless population.

There is no generally agreed-upon definition of "the homeless," and there are limitations in the census count that prevent obtaining a total count of the homeless population under any definition. As such, the Census Bureau does not have a definition and will not provide a total count of "the homeless." Rather, the Census Bureau will provide counts and characteristics of persons found at the time of the census in *selected* types of living arrangements. These selected components can be used as building blocks to construct a count of homeless persons appropriate to particular purposes as long as the data limitations are taken into account.

In preparation for "Shelter-and-Street-Night" enumeration, the regional census centers (RCC's) mailed a certified letter (Form D-33 (L)) to the highest elected official of each active functioning government of the United States (more than 39,000) requesting them to identify:

1. All shelters with sleeping facilities (permanent and temporary, such as church basements, armories, public buildings, and so forth, that could be open on March 20).
2. Hotels and motels used to house homeless persons and families.
3. A list of outdoor locations where homeless persons tend to be at night.
4. Places such as bus or train stations, subway stations, airports, hospital emergency rooms, and so forth, where homeless persons seek shelter at night.

5. The specific addresses of abandoned or boarded-up buildings where homeless persons were thought to stay at night.

The letter from the RCC's to the governmental units emphasized the importance of listing night-time congregating sites. The list of shelters was expanded using information from administrative records and informed local sources. The street sites were limited to the list provided by the jurisdictions. All governmental units were eligible for "Shelter and Street Night." For cities with 50,000 or more persons, the Census Bureau took additional steps to update the list of shelter and street locations if the local jurisdiction did not respond to the certified letter. Smaller cities and rural areas participated if the local jurisdiction provided the Census Bureau a list of shelters or open public places to visit or if shelters were identified through our inventory development, local knowledge update, or during the Special Place Prelist operation.

The Census Bureau encouraged persons familiar with homeless persons and the homeless themselves to apply as enumerators. This recruiting effort was particularly successful in larger cities.

For shelters, both long- and short-form Individual Census Reports (ICR's) were distributed. For street enumeration, only short-form ICR's were used. Persons in shelters and at street locations were asked the basic population questions. Additional questions about social and economic characteristics were asked of a sample of persons in shelters only.

Enumerators were instructed *not* to ask who was homeless; rather, they were told to count all persons (including children) staying overnight at the shelters, and everyone they saw on the street except the police, other persons in uniform, and persons engaged in employment or obvious money-making activities other than begging and panhandling.

At both shelter and street sites, persons found sleeping were not awakened to answer questions. Rather, the enumerator answered the sex and race questions by observation and estimated the person's age to the best of his or her ability. In shelters, administrative records and information from the shelter operator were used, when available, for persons who were already asleep.

Less than 1 percent of shelters refused to participate in the census count at first. By the end of the census period, most of those eventually cooperated and the number of refusals had been reduced to a few. For the final refusals, head counts and population characteristics were obtained by enumerators standing outside such shelters and counting people as they left in the morning.

The "street" count was restricted to persons who were visible when the enumerator came to the open, public locations that had been identified by local jurisdictions. Homeless persons who were well hidden, moving about, or in locations other than those identified by the local governments were likely missed. The number missed will never be known and there is no basis to make an estimate

of the number missed from census data. The count of persons in open, public places was affected by many factors, including the extra efforts made to encourage people to go to shelters for "Shelter and Street Night," the weather (which was unusually cold in many parts of the country), the presence of the media, and distrust of the census. Expectations of the number of homeless persons on the street cannot be based on the number seen during the day because the night-time situation is normally very different as more homeless persons are in shelters or very well hidden.

For both "Shelter-and-Street-Night" locations, the Census Bureau assumed that the usual home of those enumerated was in the block where they were found (shelter or street).

The "Shelter-and-Street-Night" operation replaced and expanded the 1980 Mission Night (M-Night) and Casual Count operations. These two operations were aimed at counting the population who reported having no usual residence. M-Night was conducted a week after Census Day, in April 1980. Enumerators visited hotels, motels, and similar places costing \$4 or less each night; missions, flophouses, local jails and similar places at which the average length of stay was 30 days or less; and nonshelter locations, such as bus depots, train stations, and all night movie theaters. Questions were asked of everyone, regardless of age. Enumerators conducted M-Night up to midnight on April 8, 1980, and returned the next morning to collect any forms completed after midnight.

The Casual Count operation was conducted in May 1980 at additional nonshelter locations, such as street corners, pool halls, welfare and employment offices. This operation lasted for approximately 2 weeks. Casual Count was conducted during the day only in selected large central cities. Only persons who appeared to be at least 15 years of age were asked if they had been previously enumerated. Casual Count was actually a coverage-improvement operation. It was not specifically an operation to count homeless persons living in the streets. Persons were excluded if they said they had a usual home outside the city because it was not cost effective to check through individual questionnaires in another city to try to find the person.

PROCESSING PROCEDURES

Respondents returned many census questionnaires by mail to 1 of over 344 census district offices or to one of six processing offices. In these offices, the questionnaires were "checked in" and edited for completeness and consistency of the responses. After this initial processing had been performed, all questionnaires were sent to the processing offices.

In the processing offices, the household questionnaires were microfilmed and processed by the Film Optical Sensing Device for Input to Computers (FOSDIC). For most items on the questionnaire, the information supplied

by the respondent was indicated by filling circles in pre-designated positions. FOSDIC electronically "read" these filled circles from the microfilm copy of the questionnaire and transferred the information to computer tape. The computer tape did not include individual names, addresses, or handwritten responses.

The data processing was performed in several stages. All questionnaires were microfilmed, "read" by FOSDIC, and transferred to computer disk. Selected written entries in the race question on both the short and long forms were keyed from the microfilm and coded using the data base developed from the 1980 census and subsequent content and operational tests. Keying of other written entries on the long forms occurred in the seven processing offices.

The information (for example, income dollar amounts or homeowner shelter costs) on these keyed files was merged with the FOSDIC data or processed further through one of three automated coding programs. The codes for industry, occupation, place-of-birth, migration, place-of-work, ancestry, language, relationship, race, and Hispanic origin were merged with the FOSDIC data for editing, weighting, and tabulating operations at Census Bureau headquarters. All responses to the questions on Individual Census Reports (ICR's), Military Census Reports (MCR's), and Shipboard Census Reports (SCR's) were keyed, not processed by microfilm or FOSDIC.

APPENDIX E.

Facsimiles of Respondent Instructions and Questionnaire Pages

Your Guide for the

1990 U.S. Census Form

This guide gives helpful information on filling out your census form. If you need more help, call the local U.S. census office. **The telephone number is on the cover of the questionnaire.** After you have filled out your form, please return it in the **envelope** we have provided.

On the inside	Page
How to fill out your census form	2
Example	2
Your answers are confidential	2
Instructions for the census questions	3-11
What the census is about	12
Why the census asks certain questions	12

CENSUS '90

U.S. DEPARTMENT OF COMMERCE
BUREAU OF THE CENSUS



D4

How to Fill Out Your Census Form

Please use a black lead pencil only. Black lead pencil is better to use than ballpoint or other pens. Most questions ask you to fill in the circle, or to print the information. See **Example** below.

Make sure you print answers for everyone in this household. If someone in the household, such as a roomer or boarder, does not want to give you all the information for the form, print at least the person's name and answer questions 2 and 3. A census taker will call to get the other information directly from the person.

There may be a question you cannot answer exactly. For example, you might not know the age of an elderly person or the price for which your house would sell. Ask someone else in your household; if no one knows, give your best estimate.

Instructions for individual questions begin on page 3 of this guide. They will help you to understand the questions and answer them correctly.

If you have a question about filling out the census form or need assistance, call the local U.S. census office. **The telephone number is given on the cover of the questionnaire.**

If you do not mail back your census form, a census taker will be sent out to assist you. But it saves time and your taxpayer dollars if you fill out the form yourself and mail it back.

Example

a. Age	b. Year of birth	a. Age	b. Year of birth
<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/> 1 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0	<input type="radio"/> 0 <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3	<input type="radio"/> 1 <input type="radio"/> 8 <input type="radio"/> 0 <input type="radio"/> 0 <input type="radio"/> 0
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Your Answers Are Confidential

The law authorizing the census (Title 13, U.S. Code) also provides that your answers are confidential. No one except census workers may see your completed form and they can be fined and/or imprisoned for any disclosure of your answers. Only after 72 years can your individual census form become available to other government agencies (whether federal, state, county, or local). Until then, no other person or business can see your individual report.

The same law that protects the confidentiality of your answers requires that you provide the information asked in this census to the best of your knowledge.

Information collected from the decennial census is used for a variety of statistical purposes. Census information is used to find out where funding is most needed for schools, health centers, highways, and other services. Census results are used by members of public and private groups—including community organizations—and by businesses and industries, as well as by agencies at all levels of government.

Instructions for Questions 1a through 7

- 1a. List everyone who lives at this address in question 1a. If you are not sure if you should list a person, see the rules on page 1 of the census form. If you are still not sure, answer as best you can and fill in "Yes" for question H1a or H1b, as appropriate.

If there are more than seven people in your household, please list all the persons in question 1a, complete the form for seven people, and mail it back in the enclosed envelope. A census taker will call to obtain the information for the additional persons.

- b. If everyone listed in question 1a usually lives at another address(es), print the address(es) in 1b.
2. Fill one circle to show how each person is related to the person in column 1. If **Other relative** of the person in column 1, print the exact relationship such as son-in-law, daughter-in-law, grandparent, nephew, niece, mother-in-law, father-in-law, cousin, and so on. If the **Stepson/stepdaughter** of the person in column 1 also has been legally adopted by the person in column 1, mark **Stepson/stepdaughter** but do not mark **Natural-born or adopted son/daughter**. In other words, **Stepson/stepdaughter** takes precedence over **Adopted son/daughter**.
4. Fill ONE circle for the race each person considers himself/herself to be.

If you fill the **Indian (Amer.)** circle, print the name of the tribe or tribes in which the person is enrolled. If the person is not enrolled in a tribe, print the name of the principal tribe(s).

If you fill the **Other API** circle [under **Asian or Pacific Islander (API)**], **only** print the name of the group to which the person belongs. For example, the **Other API** category includes persons who identify as Burmese, Fijian, Hmong, Indonesian, Laotian, Bangladeshi, Pakistani, Tongan, Thai, Cambodian, Sri Lankan, and so on.

If you fill the **Other race** circle, be sure to print the name of the race.

If the person considers himself/herself to be **White, Black or Negro, Eskimo or Aleut**, fill one circle only. Please do not print the race in the boxes.

The **Black or Negro** category also includes persons who identify as African-American, Afro-American, Haitian, Jamaican, West Indian, Nigerian, and so on.

All persons, regardless of citizenship status, should answer this question.

5. Print age at last birthday in the space provided (print "00" for babies less than 1 year old). Fill in the matching circle below each box. Also, print year of birth in the space provided. Then fill in the matching circle below each box. For an illustration of how to complete question 5, see the **Example** on page 2 of this guide.
6. If the person's only marriage was annulled, mark **Never married**.
7. A person is of Spanish/Hispanic origin if the person's origin (ancestry) is Mexican, Mexican-Am., Chicano, Puerto Rican, Cuban, Argentinean, Colombian, Costa Rican, Dominican, Ecuadoran, Guatemalan, Honduran, Nicaraguan, Peruvian, Salvadoran, from other Spanish-speaking countries of the Caribbean or Central or South America, or from Spain.

If you fill the **Yes, other Spanish/Hispanic** circle, print one group.

A person who is not of Spanish/Hispanic origin should answer this question by filling the **No (not Spanish/Hispanic)** circle. Note that the term "**Mexican-Am.**" refers only to persons of Mexican origin or ancestry.

All persons, regardless of citizenship status, should answer this question.

Instructions for Question H1a through H1b

- H1a. Refer to the list of persons you entered in question 1a on page 1. If you left anyone out of your list because you were not sure if the person(s) should be listed, answer question H1a as **Yes**. Then enter the name(s) and reason(s) why you did not list the person(s) on the lines provided. Otherwise, answer question H1a as **No**.
- b. If you included anyone on your list even though you were not sure that you should list the person(s), answer question H1b as **Yes**. Then enter the name(s) and reason(s) why you listed the person(s) on the lines provided. Otherwise, answer question H1b as **No**.

Instructions for Questions H2 through H7b

H2. Fill only one circle.

Count all occupied and vacant apartments in the house or building. Do not count stores or office space.

Detached means there is open space on all sides, or the house is joined only to a shed or garage. *Attached* means that the house is joined to another house or building by at least one wall that goes from ground to roof. An example of **A one-family house attached to one or more houses** is a house in a row of houses attached to one another.

A mobile home or trailer that has had one or more rooms added or built onto it should be counted as a *one-family detached house*; a porch or shed is not considered a room.

H3. Count only whole rooms in your house, apartment, or mobile home used for living purposes, such as living rooms, dining rooms, kitchens, bedrooms, finished recreation rooms, family rooms, etc. Do not count bathrooms, kitchenettes, strip or pullman kitchens, utility rooms, foyers, halls, half-rooms, porches, balconies, unfinished attics, unfinished basements, or other unfinished space used for storage.

H4. Housing is owned if the owner or co-owner lives in it. Mark **Owned by you or someone in this household with a mortgage or loan** if the house, apartment, or mobile home is mortgaged or there is a contract to purchase. Mark **Owned by you or someone in this household free and clear (without a mortgage)** if there is no mortgage or other debt. If the house, apartment, or mobile home is owned but the land is rented, mark this question to show the status of the house, apartment, or mobile home.

Mark **Rented for cash rent** if any money rent is paid, even if the rent is paid by persons who are not members of your household, or by a federal, state, or local government agency.

Mark **Occupied without payment of cash rent** if the unit is **not** owned or being bought by the occupants and if money rent is **not** paid or contracted. The unit may be owned by friends or relatives who live elsewhere and who allow occupancy without charge. A house or apartment may be provided as part of wages or salary. Examples are: caretaker's or janitor's house or apartment; parsonages; tenant farmer or sharecropper houses for which the occupants do not pay cash rent; or military housing.

H5a. Answer H5a and H5b if you live in a one-family house or a mobile home; include only land that you own or rent.

b. A business is easily recognized from the outside; for example, a grocery store or barber shop. A medical office is a doctor's or dentist's office regularly visited by patients.

H6. If this is a house, include the value of the house, the land it is on, and any other structures on the same property. If the house is owned but the land is rented, estimate the combined value of the house and the land. If this is a condominium unit, estimate the value for your house or apartment including your share of the common elements. If this is a mobile home, include the value of the mobile home and the value of the land. If you rent the land, estimate the value of the rented land and add it to the value of the mobile home.

H7a. Report the rent agreed to or contracted for, even if the rent for your house, apartment, or mobile home is unpaid or paid by someone else.

If rent is paid:	Multiply rent by:	If rent is paid:	Divide rent by:
By the day	30	4 times a year	3
By the week	4	2 times a year	6
Every other week	2	Once a year	12

b. Answer **Yes** if meals are included in the monthly rent payment, or you must contract for meals or a meal plan in order to live in this building.

Instructions for Questions H8 through H19b

H8. The person listed in column 1 refers to the person listed in the first column on page 2. This person should be the household member (or one of the members) in whose name the house, apartment, or mobile home is owned, being bought, or rented. If there is no such person, any adult household member can be the person in column 1. Mark when this person last moved into this house, apartment, or mobile home.

H9. Include all rooms intended to be used as bedrooms in this house, apartment, or mobile home, even if they are currently being used for other purposes.

H10. Mark **Yes, have all three facilities** if you have all the facilities mentioned; all facilities must be in your house, apartment, or mobile home, but not necessarily in the same room. Consider that you have hot water even if you have it only part of the time. Mark **No** if any of the three facilities is not present.

H11. The kitchen sink, stove, and refrigerator must be located in the building but do not have to be in the same room. Portable cooking equipment is not considered as a range or cookstove.

H12. Answer **Yes** only if the telephone is located in your house, apartment, or mobile home.

H13. Count company cars (including police cars and taxicabs) and company trucks of one-ton capacity or less that are regularly kept at home and used by household members for nonbusiness purposes. Do **not** count cars or trucks permanently out of working order.

H14. Fill the circle for the fuel used most to heat your house, apartment, or mobile home. In buildings containing more than one apartment you may obtain this information from the owner, manager, or janitor.

Solar energy is provided by a system that collects, stores, and distributes heat from the sun. **Other fuel** includes any fuel not separately listed; for example, purchased steam, fuel briquettes, waste material, etc.

H15. If a well provides water for five or more houses, apartments, or mobile homes, mark **A public system**. If a well provides water for four or fewer houses, apartments, or mobile homes, fill one of the circles for **Individual well**.

Drilled wells, or small diameter wells, are usually less than 1½ feet in diameter. **Dug wells** are generally hand dug and are larger than 1½ feet wide.

H16. A **public sewer** may be operated by a government body or private organization. A **septic tank or cesspool** is an underground tank or pit used for disposal of sewage.

H17. Fill the circle corresponding to the period in which the original construction was completed, *not* the time of any later remodeling, additions, or conversions. In buildings containing more than one apartment, the owner, manager, or janitor may be of help in determining when the building was built.

If you live in a houseboat or a trailer or mobile home, fill the circle corresponding to the model year in which it was manufactured.

If you do not know the period when the building was first constructed, fill the circle for **Don't know**.

H18. A **condominium** is a type of ownership in which the apartments, houses, or mobile homes in a building or development are individually owned, but the common areas, such as lobbies, halls, etc., are jointly owned. Cooperative occupants should mark **No**.

H19a. Answer H19a and H19b if you live in a one-family house or mobile home.

b. This property is the acreage on which the house is located; it includes adjoining land you rent for your use. Report sales made in 1989 from this property by you or previous occupants.

Instructions for Questions H20 through H26

H20. If your house or apartment is rented, enter the costs for utilities and fuels **only if you pay for them in addition to the rent entered in H7a.**

If you live in a condominium, enter the costs for utilities and fuels **only if you pay for them in addition to your condominium fee.**

If your fuel and utility costs are already included in your rent or condominium fee, fill the **Included in rent or in condominium fee** circle. Do not enter any dollar amounts.

The amounts to be reported should be the total amount for the past 12 months. Estimate as closely as possible when exact costs are not known. If you have lived in this house or apartment less than 1 year, estimate the yearly cost.

Report amounts even if your bills are unpaid or paid by someone else. If the bills include utilities or fuel used also by another apartment or a business establishment, estimate the amounts for your own house or apartment. If gas and electricity are billed together, enter the combined amount on the electricity line and bracket [] the two utilities.

H21. Report taxes for all taxing jurisdictions (city or town, county, state, school district, etc.) even if they are included in your mortgage payment, not yet paid or paid by someone else, or are delinquent. Do not include taxes past due from previous years.

H22. When premiums are paid on other than a yearly basis, convert to a yearly basis. Enter the yearly amount even if no payment was made during the past 12 months.

H23a. The word *mortgage* is used as a general term to indicate all types of loans that are secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a to change it to a monthly amount.

Include payments on first mortgages and contracts to purchase only. Payments for second or junior mortgages and home equity loans should be reported in H24b.

H24a. A second or junior mortgage or home equity loan is secured by real estate.

b. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see instructions for H7a and change it to a monthly amount. Include payments on all second or junior mortgages or home equity loans.

H25. A *condominium fee* is normally assessed by the condominium owners' association for the purpose of improving and maintaining the common areas. Enter a monthly amount even if it is unpaid or paid by someone else. If the amount is paid on some other periodic basis, see the instructions for H7a on how to change it to a monthly amount.

H26. Report amount even if your bills are unpaid or paid by someone else. Include payments for personal property taxes, land or site rent, registration fees and license fees. Do not include real estate taxes already reported in H21. The amount to be reported should be the total amount for an entire 12-month billing period even if made in two or more installments. Estimate as closely as possible when exact costs are not known.

Instructions for Question 8

8. For persons born in the United States:

Print the name of the State in which this person was born. If the person was born in Washington, D.C., print District of Columbia. If the person was born in a U.S. territory or commonwealth, print Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas.

For persons born outside the United States:

Print the name of the foreign country or area where the person was born. Use current boundaries, not boundaries at the time of the person's birth. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland, or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies).

Instructions for Questions 9 through 13

9. A person should fill the **Yes, U.S. citizen by naturalization** circle only if he/she has completed the naturalization process and is now a United States citizen. If the person was born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas, he/she should fill the **Yes, born in Puerto Rico, Guam, the U.S. Virgin Islands, or Northern Marianas** circle. If the person was born outside the United States (or at sea) and has at least one American parent, he/she should fill the **Yes, born abroad of American parent or parents** circle.

10. If the person has entered the United States (that is, the 50 states and the District of Columbia) more than once, fill the circle for the latest year he/she came to stay.

11. Do not include enrollment in a trade or business school, company training, or tutoring unless the course would be accepted for credit at a regular elementary school, high school, or college.

A *public school* is any school or college that is controlled and supported primarily by a local, county, State, or Federal Government. Schools are private if supported and controlled primarily by religious organizations or other private groups.

12. Mark the category for the highest grade or level of schooling the person has **successfully completed** or the **highest degree** the person received. If the person is enrolled in school, mark the category containing the highest grade completed (the grade previous to the grade in which enrolled). Schooling completed in foreign or ungraded schools should be reported as the equivalent level of schooling in the regular American school system.

Persons who completed high school by passing an equivalency test, such as the General Educational Development (GED) examination, and did not attend college, should fill the circle for high school graduate.

Do not include vocational certificates or diplomas from vocational, trade, or business schools or colleges unless they were college level associate degrees or higher.

Some examples of *professional school degrees* include medicine, dentistry, chiropractic, optometry, osteopathic medicine, pharmacy, podiatry, veterinary medicine, law, and theology. Do not include barber school, cosmetology, or other training for a specific trade.

Do not include honorary degrees awarded by colleges and universities to individuals for their accomplishments. Include only "earned" degrees.

13. Print the ancestry group. Ancestry refers to the person's ethnic origin or descent, "roots," or heritage. Ancestry also may refer to the country of birth of the person or the person's parents or ancestors before their arrival in the United States. All persons, regardless of citizenship status, should answer this question.

Persons who have more than one origin and cannot identify with a single ancestry group may report two ancestry groups (for example, German-Irish).

Be specific. For example, print whether West Indian, Asian Indian, or American Indian. West Indian includes persons whose ancestors came from Jamaica, Trinidad, Haiti, etc. Distinguish Cape Verdean from Portuguese; French Canadian from Canadian; and Dominican Republic from Dominica Island.

A religious group should not be reported as a person's ancestry.

Instructions for Questions 14a through 19

14a. Mark **Yes** if this person lived in this same house or apartment on April 1, 1985, even if he/she moved away and came back since then. Mark **No** if this person lived in the same building but in a different apartment (or in the same mobile home or trailer but on a different lot or trailer site).

b. If this person lived in a different house or apartment on April 1, 1985, give the location of this person's usual home at that time.

Part (1)

If the person lived in the United States on April 1, 1985, print the name of the State (or District of Columbia) where he or she lived. Continue with parts (2) through (4).

If the person lived in a U.S. territory or commonwealth, print the name of the territory or commonwealth, such as Puerto Rico, U.S. Virgin Islands, Guam, American Samoa, or Northern Marianas. Then go to question 15a.

If the person lived outside the United States, print the name of the foreign country or area where he or she lived. Specify whether Northern Ireland or the Republic of Ireland (Eire); East or West Germany; North or South Korea; England, Scotland or Wales (not Great Britain or United Kingdom). Specify the particular country or island in the Caribbean (not, for example, West Indies). Then go to question 15a.

Part (2)

If the person lived in Louisiana, print the parish name. If the person lived in Alaska, print the borough name. If the person lived in New York city and the county name is not known, print the borough name. If the person lived in an independent city (not in any county) or in Washington, D.C., leave blank and enter the city name in part (3).

Part (3)

If the person lived in New England, print the name of the town rather than the village name, unless the name of the town is not known. If the person lived outside the limits or boundaries of any city or town, print the name of the post office or the nearest town and mark **No, lived outside the city/town limits** in part (4).

Part (4)

Mark **Yes** if the location is now inside the city/town limits even if it was not inside the limits on April 1, 1985; that is, if the area was annexed by the city/town since that time.

15. Mark **Yes** if the person sometimes or always speaks a language other than English at home.

Do not mark **Yes** for a language spoken only at school or if speaking is limited to a few expressions or slang.

Print the name of the language spoken at home. If this person speaks more than one non-English language and cannot determine which is spoken more often, report the first language the person learned to speak.

17a. For a person with service in the National Guard or a military reserve unit, fill one of the two **Yes, active duty** circles if and only if the person has ever been called up for active duty other than training; otherwise, mark **Yes, service in Reserves or National Guard only**. For a person whose only service was as a civilian employee or volunteer for the Red Cross, USO, Public Health Service, or War or Defense Department, mark **No**. Count **World War II Merchant Marine Seaman** service as active duty; do not count other Merchant Marine service as active duty.

18. Mark **Yes** to part (a) if a health condition substantially limits this person in his or her choice of occupation or if the condition limits the amount of work that can be accomplished in a given period of time. Mark **Yes** to part (b) if the health condition prevents this person from holding any significant employment.

19. Consider a person to have difficulty with these activities if any of the following situations apply: (1) it takes extra time or extra effort for the person to perform one or more of the activities, (2) there are times when the person cannot perform one or more of the activities, or (3) the person is completely unable to perform one or more of the activities.

Instructions for Questions 20 through 23b

20. Count all children born alive, including any who have died (even shortly after birth) or who no longer live with you. Do not include miscarriages or stillborn children or any adopted, foster, or stepchildren.

21a. Count as work — Mark **Yes**:

- Work for someone else for wages, salary, piece rate, commission, tips, or payments "in kind" (for example, food, lodging received as payment for work performed).
- Work in own business, professional practice, or farm.
- Any work in a family business or farm, paid or not.
- Any part-time work including babysitting, paper routes, etc.
- Active duty in Armed Forces.

Do not count as work — Mark **No**:

- Housework or yard work at home.
- Unpaid volunteer work.
- School work.
- Work done as a resident of an institution.

22a. Include the street type (for example, St., Road, Ave.) and the street direction (if a direction such as "North" is part of the address). For example, print 1239 N. Main St. or 1239 Main St., N.W. not just 1239 Main.

If the only known address is a post office box, give a description of the work location. For example, print the name of the building or shopping center where the person works, the nearest intersection, the nearest street where the workplace is located, etc. DO NOT GIVE A POST OFFICE BOX NUMBER.

If the person worked at a military installation or military base that has no street address, report the name of the military installation or base.

If the person worked at several locations, but reported to the same location each day to begin work, print the address of the location where he or she reported. If the person did not report to the same location each day to begin work, print the address of the location where he or she worked most last week.

If the person's employer operates in more than one location (such as a grocery store chain or public school system), print the exact address of the location or branch where the person worked. If the exact address of a school is not known, print the name of the school.

If the person worked on a college or university campus and the exact address of the workplace is not known, print the name of the building where he or she worked.

d. If the person worked in New York city and the county is not known, print the name of the borough where the person worked.

If the person worked in Louisiana, print the name of the parish where the person worked.

If the person worked in Alaska, print the name of the borough where the person worked.

e. If the person worked in a foreign country or Puerto Rico, Guam, etc., print the name of the country in 22e and leave the other parts of question 22 blank.

23a. If the person usually used more than one type of transportation to get to work (for example, rode the bus and transferred to the subway), fill the circle of the one method of transportation that he/she used for most of the distance during the trip.

b. If the person was driven to work by someone who then drove back home or to a nonwork destination, fill the circle for **Drove alone**.

DO NOT include persons who rode to school or some other nonwork destination in the count of persons who rode in the vehicle.

Instructions for Questions 24a through 30

- 24a.** Give the time of day the person usually *left home to go to work*. DO NOT give the time that the person usually began his or her work.
If the person usually left home to go to work sometime between 12:00 o'clock midnight and 12:00 o'clock noon, fill the **a.m.** circle.
If the person usually left home to go to work sometime between 12:00 o'clock noon and 12:00 o'clock midnight, fill the **p.m.** circle.
- b.** Travel time is from door to door. Include time taken waiting for public transportation or picking up passengers in a carpool.
- 25.** If the person works only during certain seasons or on a day-by-day basis when work is available, mark **No**.
- 26a.** Mark **Yes** if the person tried to get a job or to start a business or professional practice at any time in the last 4 weeks; for example, registered at an employment office, went to a job interview, placed or answered ads, or did anything toward starting a business or professional practice.
- b.** Mark **No, already has a job** if the person was on layoff or was expecting to report to a job within 30 days.
Mark **No, temporarily ill** if the person expects to be able to work within 30 days.
Mark **No, other reasons** if the person could not have taken a job because he or she was going to school, taking care of children, etc.
- 27.** Look at the instructions for question 21a to see what to count as work. Mark **Never worked** if the person: (1) never worked at any kind of job or business, either full or part time, (2) never did any work, with or without pay, in a family business or farm, and (3) never served in the Armed Forces.
- 28a.** If the person worked for a company, business, or government agency, print the name of the company, not the name of the person's supervisor. If the person worked for an individual or a business that had no company name, print the name of the individual worked for. If the person worked in his/her own business, print "self-employed."
- b.** Print two or more words to tell what the business, industry, or individual employer named in 28a did. If there is more than one activity, describe only the major activity at the place where the person worked. Enter what is made, what is sold, or what service is given.
Some examples of what to enter:
- | | |
|---|-----------------------|
| Enter a description like the following – | Do not enter – |
| Metal furniture manufacturing | Furniture company |
| Retail grocery store | Grocery store |
| Petroleum refining | Oil company |
| Cattle ranch | Ranch |
- 29.** Print two or more words to describe the kind of work the person did. If the person was a trainee, apprentice, or helper, include that in the description.
Some examples of what to enter:
- | | |
|---|-----------------------|
| Enter a description like the following – | Do not enter – |
| Production clerk | Clerk |
| Carpenter's helper | Helper |
| Auto engine mechanic | Mechanic |
| Registered nurse | Nurse |
- 30.** Mark **Employee of a PRIVATE NOT-FOR-PROFIT . . . organization** if the person worked for a cooperative, credit union, mutual insurance company, or similar organization.
Employees of foreign governments, the United Nations, and other international organizations should mark **PRIVATE NOT-FOR-PROFIT . . . organization**.
For persons who worked at a public school, college or university, mark the appropriate *government* category; for example, mark **State GOVERNMENT employee** for a state university, or mark **Local GOVERNMENT employee** for a county-run community college or a city-run public school.

Instructions for Questions 31a through 32h

- 31a.** Look at the instructions for question 21a to see what to count as work.
- b.** Count every week in which the person did any work at all, even for an hour.
- 32.** Fill the **Yes** or **No** circle for each part and enter the amount received during 1989.
If income from any source was received jointly by household members, report, if possible, the appropriate share for each person; otherwise, report the whole amount for only one person and fill the **No** circle for the other person.
- a.** Include wages and salaries from *all jobs before deductions*. Be sure to include any tips, commissions, or bonuses. Owners of *incorporated* businesses should enter their salary here. Military personnel should include base pay plus cash housing and/or subsistence allowance, flight pay, uniform allotments, reenlistment bonuses, etc.
- b.** Include **NONFARM** profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated businesses you own.
- c.** Include **FARM** profit (or loss) from self-employment in sole proprietorships and partnerships. *Exclude* profit (or loss) of incorporated farm businesses you own. Also *exclude* amounts from land rented for cash but include amounts from land rented for shares.
- d.** Include interest received or credited to checking and savings accounts, money market funds, certificates of deposit (CDs), IRAs, KEOGHs, and government bonds.
Include dividends received, credited, or reinvested from ownership of stocks or mutual funds.
Include profit (or loss) from royalties and the rental of land, buildings or real estate, or from roomers or boarders. Income received by self-employed persons whose *primary* source of income is from renting property or from royalties should be included in questions 32b or 32c above. Include regular payments from an estate or trust fund.
- e.** Include Social Security (and/or Railroad Retirement) payments to retired persons, to dependents of deceased insured workers, and to disabled workers *before* Medicare deductions.
- f.** Include Supplemental Security Income received by aged, blind, or disabled persons, Aid to Families with Dependent Children, or income from other government programs such as general or emergency assistance. Do not include assistance received from private charities. *Exclude* assistance to pay for heating (cooling) costs.
- g.** Include retirement, disability, or survivor benefits received from companies and unions; Federal, State, and local governments, and the U.S. military. Include regular income from annuities and IRA or KEOGH retirement plans.
- h.** Include Veterans' (VA) disability compensation and educational assistance payments (VEAP), unemployment compensation, child support or alimony, and all other regular payments such as Armed Forces transfer payments; assistance from private charities; regular contributions from persons not living in the household, etc.
Do not include the following as income in any item:
- Refunds or rebates of any kind
 - Withdrawals from savings of any kind
 - Capital gains or losses from the sale of homes, shares of stock, etc.
 - Inheritances or insurance settlements
 - Any type of loan
 - Pay in-kind such as food, free rent, etc.

What the Census Is About — Some Questions and Answers

Why are we taking a census?

The most important reason for taking a decennial census is to determine how many representatives each state will have in Congress.

What does the Census Bureau do with the information you provide?

The individual information collected in the census is grouped together into statistical totals. Information such as the number of persons in a given area, their ages, educational background, the characteristics of their housing, etc., enable government, business, and industry to plan more effectively.

How long have we been taking the census?

The first census was taken in 1790 in accordance with the requirement in the first article of the constitution. A census has been taken every 10 years since. The 1990 Decennial Census marks the 200th anniversary of the census.

How are you being counted?

Census forms are delivered to all households a few days before census day. Households are requested to fill out the form and mail it back to the census office.

Why the Census Asks Certain Questions

Here are a few reasons for asking some of the questions.

It is as important to get information about people and their houses as it is to count them.

Name?

Names help make sure that everyone in a household is counted, but that no one is counted twice.

Value or rent?

Government and planning agencies use answers to these questions in combination with other information to develop housing programs to meet the needs of people at different economic levels.

Complete plumbing?

This question gives information on the quality of housing. The data are used with other statistics to show how the "level of living" compares in various areas and how it has changed over time.

Place of birth?

This question provides information used to study long-term trends as to where people move and to study migration patterns and differences in growth patterns.

Job?

Answers to the questions about the jobs people hold provide information on the extent and types of employment in different areas of the country. From this information, training programs can be developed and the need for new industries can be determined.

Income?

Income, more than anything else, determines how families or persons live. Income information makes it possible to compare the economic levels of different areas.

CENSUS '90

OFFICIAL 1990 U.S. CENSUS FORM



Thank you for taking time to complete and return this census questionnaire. It's important to you, your community, and the Nation.

The law requires answers but guarantees privacy.

By law (Title 13, U.S. Code), you're required to answer the census questions to the best of your knowledge. However, the same law guarantees that your census form remains confidential. For 72 years—or until the year 2062—only Census Bureau employees can see your form. No one else—no other government body, no police department, no court system or welfare agency—is permitted to see this confidential information under any circumstances.

How to get started—and get help.

Start by listing on the next page the names of all the people who live in your home. Please answer all questions with a black lead pencil. You'll find detailed instructions for answering the census in the enclosed guide. If you need additional help, call the toll-free telephone number to the left, near your address.

Please answer and return your form promptly.

Complete your form and return it by April 1, 1990 in the postage-paid envelope provided. Avoid the inconvenience of having a census taker visit your home.

Again, thank you for answering the 1990 Census.
Remember: Return the completed form by April 1, 1990.

Para personas de habla hispana –

(For Spanish-speaking persons)

Si usted desea un cuestionario del censo en español, llame sin cargo alguno al siguiente número: **1-800-CUENTAN**
(o sea 1-800-283-6826)

U.S. Department of Commerce
BUREAU OF THE CENSUS

FORM D-2

OMB No. 0607-0628
Approval Expires 07/31/91

The 1990 census must count every person at his or her "usual residence." This means the place where the person lives and sleeps most of the time.

1a. List on the numbered lines below the name of each person living here on Sunday, April 1, including all persons staying here who have no other home. If EVERYONE at this address is staying here temporarily and usually lives somewhere else, follow the instructions given in question 1b below.

Include

- Everyone who usually lives here such as family members, housemates and roommates, foster children, roomers, boarders, and live-in employees
- Persons who are temporarily away on a business trip, on vacation, or in a general hospital
- College students who stay here while attending college
- Persons in the Armed Forces who live here
- Newborn babies still in the hospital
- Children in boarding schools below the college level
- Persons who stay here most of the week while working even if they have a home somewhere else
- Persons with no other home who are staying here on April 1

Do NOT include

- Persons who usually live somewhere else
- Persons who are away in an institution such as a prison, mental hospital, or a nursing home
- College students who live somewhere else while attending college
- Persons in the Armed Forces who live somewhere else
- Persons who stay somewhere else most of the week while working

Print last name, first name, and middle initial for each person. Begin on line 1 with the household member (or one of the household members) in whose name this house or apartment is owned, being bought, or rented. If there is no such person, start on line 1 with any adult household member.

LAST	FIRST	INITIAL	LAST	FIRST	INITIAL
1			7		
2			8		
3			9		
4			10		
5			11		
6			12		

1b. If EVERYONE is staying here only temporarily and usually lives somewhere else, list the name of each person on the numbered lines above, fill this circle ☐ and print their usual address below. DO NOT PRINT THE ADDRESS LISTED ON THE FRONT COVER.

House number	Street or road/Rural route and box number	Apartment number
City	State	ZIP Code
County or foreign country	Names of nearest intersecting streets or roads	

NOW PLEASE OPEN THE FLAP TO PAGE 2 AND ANSWER ALL QUESTIONS FOR THE FIRST 7 PEOPLE LISTED. USE A BLACK LEAD PENCIL ONLY.

<p>Please fill one column → for each person listed in Question 1a on page 1.</p>	PERSON 1		PERSON 2																																																																																																																																																																																																																													
	Last name	Middle initial	Last name	Middle initial																																																																																																																																																																																																																												
<p>2. How is this person related to PERSON 1?</p> <p>Fill ONE circle for each person.</p> <p>If Other relative of person in column 1, fill circle and print exact relationship, such as mother-in-law, grandparent, son-in-law, niece, cousin, and so on.</p>	<p>START in this column with the household member (or one of the members) in whose name the home is owned, being bought, or rented.</p> <p>If there is no such person, start in this column with any adult household member.</p> <p style="text-align: center;"><input checked="" type="checkbox"/></p>		<p>If a RELATIVE of Person 1:</p> <p><input type="checkbox"/> Husband/wife <input type="checkbox"/> Brother/sister</p> <p><input type="checkbox"/> Natural-born <input type="checkbox"/> Father/mother</p> <p> or adopted <input type="checkbox"/> Grandchild</p> <p><input type="checkbox"/> Stepson/ <input type="checkbox"/> Other relative →</p> <p> stepdaughter</p> <hr/> <p>If NOT RELATED to Person 1:</p> <p><input type="checkbox"/> Roomer, boarder, <input type="checkbox"/> Unmarried partner</p> <p> or foster child</p> <p><input type="checkbox"/> Housemate, <input type="checkbox"/> Other nonrelative</p> <p> roommate</p>																																																																																																																																																																																																																													
<p>3. Sex</p> <p>Fill ONE circle for each person.</p>	<p><input type="checkbox"/> Male <input type="checkbox"/> Female</p>		<p><input type="checkbox"/> Male <input type="checkbox"/> Female</p>																																																																																																																																																																																																																													
<p>4. Race</p> <p>Fill ONE circle for the race that the person considers himself/herself to be.</p> <p>If Indian (Amer.), print the name of the enrolled or principal tribe. →</p> <p>If Other Asian or Pacific Islander (API), print one group, for example: Hmong, Fijian, Laotian, Thai, Tongan, Pakistani, Cambodian, and so on. →</p> <p>If Other race, print race. →</p>	<p><input type="checkbox"/> White</p> <p><input type="checkbox"/> Black or Negro</p> <p><input type="checkbox"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) →</p> <p><input type="checkbox"/> Eskimo</p> <p><input type="checkbox"/> Aleut</p> <p style="text-align: center;"><u>Asian or Pacific Islander (API)</u></p> <p><input type="checkbox"/> Chinese <input type="checkbox"/> Japanese</p> <p><input type="checkbox"/> Filipino <input type="checkbox"/> Asian Indian</p> <p><input type="checkbox"/> Hawaiian <input type="checkbox"/> Samoan</p> <p><input type="checkbox"/> Korean <input type="checkbox"/> Guamanian</p> <p><input type="checkbox"/> Vietnamese <input type="checkbox"/> Other API →</p> <p><input type="checkbox"/> Other race (Print race) →</p>		<p><input type="checkbox"/> White</p> <p><input type="checkbox"/> Black or Negro</p> <p><input type="checkbox"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) →</p> <p><input type="checkbox"/> Eskimo</p> <p><input type="checkbox"/> Aleut</p> <p style="text-align: center;"><u>Asian or Pacific Islander (API)</u></p> <p><input type="checkbox"/> Chinese <input type="checkbox"/> Japanese</p> <p><input type="checkbox"/> Filipino <input type="checkbox"/> Asian Indian</p> <p><input type="checkbox"/> Hawaiian <input type="checkbox"/> Samoan</p> <p><input type="checkbox"/> Korean <input type="checkbox"/> Guamanian</p> <p><input type="checkbox"/> Vietnamese <input type="checkbox"/> Other API →</p> <p><input type="checkbox"/> Other race (Print race) →</p>																																																																																																																																																																																																																													
<p>5. Age and year of birth</p> <p>a. Print each person's age at last birthday. Fill in the matching circle below each box.</p> <p>b. Print each person's year of birth and fill the matching circle below each box.</p>	<p>a. Age</p> <table border="1"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td></tr> <tr><td>2</td><td>0</td><td>2</td><td>0</td><td>2</td></tr> <tr><td>3</td><td>0</td><td>3</td><td>0</td><td>3</td></tr> <tr><td>4</td><td>0</td><td>4</td><td>0</td><td>4</td></tr> <tr><td>5</td><td>0</td><td>5</td><td>0</td><td>5</td></tr> <tr><td>6</td><td>0</td><td>6</td><td>0</td><td>6</td></tr> <tr><td>7</td><td>0</td><td>7</td><td>0</td><td>7</td></tr> <tr><td>8</td><td>0</td><td>8</td><td>0</td><td>8</td></tr> <tr><td>9</td><td>0</td><td>9</td><td>0</td><td>9</td></tr> </table> <p>b. Year of birth</p> <table border="1"> <tr><td>1</td><td>8</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td></tr> <tr><td>2</td><td>0</td><td>2</td><td>0</td><td>2</td><td>0</td></tr> <tr><td>3</td><td>0</td><td>3</td><td>0</td><td>3</td><td>0</td></tr> <tr><td>4</td><td>0</td><td>4</td><td>0</td><td>4</td><td>0</td></tr> <tr><td>5</td><td>0</td><td>5</td><td>0</td><td>5</td><td>0</td></tr> <tr><td>6</td><td>0</td><td>6</td><td>0</td><td>6</td><td>0</td></tr> <tr><td>7</td><td>0</td><td>7</td><td>0</td><td>7</td><td>0</td></tr> <tr><td>8</td><td>0</td><td>8</td><td>0</td><td>8</td><td>0</td></tr> <tr><td>9</td><td>0</td><td>9</td><td>0</td><td>9</td><td>0</td></tr> </table>		0	0	0	0	0	1	0	1	0	1	2	0	2	0	2	3	0	3	0	3	4	0	4	0	4	5	0	5	0	5	6	0	6	0	6	7	0	7	0	7	8	0	8	0	8	9	0	9	0	9	1	8	0	0	0	0	9	0	1	0	1	0	2	0	2	0	2	0	3	0	3	0	3	0	4	0	4	0	4	0	5	0	5	0	5	0	6	0	6	0	6	0	7	0	7	0	7	0	8	0	8	0	8	0	9	0	9	0	9	0	<p>a. Age</p> <table border="1"> <tr><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>1</td><td>0</td><td>1</td><td>0</td><td>1</td></tr> <tr><td>2</td><td>0</td><td>2</td><td>0</td><td>2</td></tr> <tr><td>3</td><td>0</td><td>3</td><td>0</td><td>3</td></tr> <tr><td>4</td><td>0</td><td>4</td><td>0</td><td>4</td></tr> <tr><td>5</td><td>0</td><td>5</td><td>0</td><td>5</td></tr> <tr><td>6</td><td>0</td><td>6</td><td>0</td><td>6</td></tr> <tr><td>7</td><td>0</td><td>7</td><td>0</td><td>7</td></tr> <tr><td>8</td><td>0</td><td>8</td><td>0</td><td>8</td></tr> <tr><td>9</td><td>0</td><td>9</td><td>0</td><td>9</td></tr> </table> <p>b. Year of birth</p> <table border="1"> <tr><td>1</td><td>8</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>9</td><td>0</td><td>1</td><td>0</td><td>1</td><td>0</td></tr> <tr><td>2</td><td>0</td><td>2</td><td>0</td><td>2</td><td>0</td></tr> <tr><td>3</td><td>0</td><td>3</td><td>0</td><td>3</td><td>0</td></tr> <tr><td>4</td><td>0</td><td>4</td><td>0</td><td>4</td><td>0</td></tr> <tr><td>5</td><td>0</td><td>5</td><td>0</td><td>5</td><td>0</td></tr> <tr><td>6</td><td>0</td><td>6</td><td>0</td><td>6</td><td>0</td></tr> <tr><td>7</td><td>0</td><td>7</td><td>0</td><td>7</td><td>0</td></tr> <tr><td>8</td><td>0</td><td>8</td><td>0</td><td>8</td><td>0</td></tr> <tr><td>9</td><td>0</td><td>9</td><td>0</td><td>9</td><td>0</td></tr> </table>		0	0	0	0	0	1	0	1	0	1	2	0	2	0	2	3	0	3	0	3	4	0	4	0	4	5	0	5	0	5	6	0	6	0	6	7	0	7	0	7	8	0	8	0	8	9	0	9	0	9	1	8	0	0	0	0	9	0	1	0	1	0	2	0	2	0	2	0	3	0	3	0	3	0	4	0	4	0	4	0	5	0	5	0	5	0	6	0	6	0	6	0	7	0	7	0	7	0	8	0	8	0	8	0	9	0	9	0	9	0
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<p>6. Marital status</p> <p>Fill ONE circle for each person.</p>	<p><input type="checkbox"/> Now married <input type="checkbox"/> Separated</p> <p><input type="checkbox"/> Widowed <input type="checkbox"/> Never married</p> <p><input type="checkbox"/> Divorced</p>		<p><input type="checkbox"/> Now married <input type="checkbox"/> Separated</p> <p><input type="checkbox"/> Widowed <input type="checkbox"/> Never married</p> <p><input type="checkbox"/> Divorced</p>																																																																																																																																																																																																																													
<p>7. Is this person of Spanish/Hispanic origin?</p> <p>Fill ONE circle for each person.</p> <p>If Yes, other Spanish/Hispanic, print one group. →</p>	<p><input type="checkbox"/> No (not Spanish/Hispanic)</p> <p><input type="checkbox"/> Yes, Mexican, Mexican-Am., Chicano</p> <p><input type="checkbox"/> Yes, Puerto Rican</p> <p><input type="checkbox"/> Yes, Cuban</p> <p><input type="checkbox"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →</p>		<p><input type="checkbox"/> No (not Spanish/Hispanic)</p> <p><input type="checkbox"/> Yes, Mexican, Mexican-Am., Chicano</p> <p><input type="checkbox"/> Yes, Puerto Rican</p> <p><input type="checkbox"/> Yes, Cuban</p> <p><input type="checkbox"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) →</p>																																																																																																																																																																																																																													
<p>FOR CENSUS USE →</p>	<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>		<p><input type="checkbox"/></p> <p><input type="checkbox"/></p>																																																																																																																																																																																																																													

NOW PLEASE ANSWER QUESTIONS H1a—H26 FOR THIS HOUSEHOLD

PERSON 7	
Last name _____	
First name _____ Middle initial _____	
If a RELATIVE of Person 1:	
<input type="checkbox"/> Husband/wife <input type="checkbox"/> Natural-born or adopted son/daughter <input type="checkbox"/> Stepson/stepdaughter	<input type="checkbox"/> Brother/sister <input type="checkbox"/> Father/mother <input type="checkbox"/> Grandchild <input type="checkbox"/> Other relative _____ <input type="checkbox"/> Roomer, boarder, or foster child <input type="checkbox"/> Housemate, roommate <input type="checkbox"/> Male <input type="checkbox"/> Female
If NOT RELATED to Person 1:	
<input type="checkbox"/> White <input type="checkbox"/> Black or Negro <input type="checkbox"/> Indian (Amer.) (Print the name of the enrolled or principal tribe.) _____ <input type="checkbox"/> Eskimo <input type="checkbox"/> Aleut Asian or Pacific Islander (API) <input type="checkbox"/> Chinese <input type="checkbox"/> Japanese <input type="checkbox"/> Filipino <input type="checkbox"/> Asian Indian <input type="checkbox"/> Hawaiian <input type="checkbox"/> Samoan <input type="checkbox"/> Korean <input type="checkbox"/> Guamanian <input type="checkbox"/> Vietnamese <input type="checkbox"/> Other API _____ <input type="checkbox"/> Other race (Print race) _____	<input type="checkbox"/> Unmarried partner <input type="checkbox"/> Other nonrelative <input type="checkbox"/> Male <input type="checkbox"/> Female
a. Age _____	b. Year of birth _____
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<input type="checkbox"/> Now married <input type="checkbox"/> Separated <input type="checkbox"/> Widowed <input type="checkbox"/> Never married <input type="checkbox"/> Divorced	
<input type="checkbox"/> No (not Spanish/Hispanic) <input type="checkbox"/> Yes, Mexican, Mexican-Am., Chicano <input type="checkbox"/> Yes, Puerto Rican <input type="checkbox"/> Yes, Cuban <input type="checkbox"/> Yes, other Spanish/Hispanic (Print one group, for example: Argentinean, Colombian, Dominican, Nicaraguan, Salvadoran, Spaniard, and so on.) _____	

H1a. Did you leave anyone out of your list of persons for Question 1a on page 1 because you were not sure if the person should be listed — for example, someone temporarily away on a business trip or vacation, a newborn baby still in the hospital, or a person who stays here once in a while and has no other home?

☐ Yes, please print the name(s) _____ and reason(s). _____

☐ No

b. Did you include anyone in your list of persons for Question 1a on page 1 even though you were not sure that the person should be listed — for example, a visitor who is staying here temporarily or a person who usually lives somewhere else?

☐ Yes, please print the name(s) _____ and reason(s). _____

☐ No

H2. Which best describes this building? Include all apartments, flats, etc., even if vacant.

☐ A mobile home or trailer
☐ A one-family house detached from any other house
☐ A one-family house attached to one or more houses
☐ A building with 2 apartments
☐ A building with 3 or 4 apartments
☐ A building with 5 to 9 apartments
☐ A building with 10 to 19 apartments
☐ A building with 20 to 49 apartments
☐ A building with 50 or more apartments
☐ Other _____

H3. How many rooms do you have in this house or apartment? Do NOT count bathrooms, porches, balconies, foyers, halls, or half-rooms.

☐ 1 room ☐ 4 rooms ☐ 7 rooms
☐ 2 rooms ☐ 5 rooms ☐ 8 rooms
☐ 3 rooms ☐ 6 rooms ☐ 9 or more rooms

H4. Is this house or apartment —

☐ Owned by you or someone in this household with a mortgage or loan?
☐ Owned by you or someone in this household free and clear (without a mortgage)?
☐ Rented for cash rent?
☐ Occupied without payment of cash rent?

If this is a ONE-FAMILY HOUSE —

H5a. Is this house on ten or more acres?

☐ Yes ☐ No

b. Is there a business (such as a store or barber shop) or a medical office on this property?

☐ Yes ☐ No

Answer only if you or someone in this household OWNS OR IS BUYING this house or apartment —

H6. What is the value of this property; that is, how much do you think this house and lot or condominium unit would sell for if it were for sale?

☐ Less than \$10,000 ☐ \$70,000 to \$74,999
☐ \$10,000 to \$14,999 ☐ \$75,000 to \$79,999
☐ \$15,000 to \$19,999 ☐ \$80,000 to \$89,999
☐ \$20,000 to \$24,999 ☐ \$90,000 to \$99,999
☐ \$25,000 to \$29,999 ☐ \$100,000 to \$124,999
☐ \$30,000 to \$34,999 ☐ \$125,000 to \$149,999
☐ \$35,000 to \$39,999 ☐ \$150,000 to \$174,999
☐ \$40,000 to \$44,999 ☐ \$175,000 to \$199,999
☐ \$45,000 to \$49,999 ☐ \$200,000 to \$249,999
☐ \$50,000 to \$54,999 ☐ \$250,000 to \$299,999
☐ \$55,000 to \$59,999 ☐ \$300,000 to \$399,999
☐ \$60,000 to \$64,999 ☐ \$400,000 to \$499,999
☐ \$65,000 to \$69,999 ☐ \$500,000 or more

Answer only if you PAY RENT for this house or apartment —

H7a. What is the monthly rent?

☐ Less than \$80 ☐ \$375 to \$399
☐ \$80 to \$99 ☐ \$400 to \$424
☐ \$100 to \$124 ☐ \$425 to \$449
☐ \$125 to \$149 ☐ \$450 to \$474
☐ \$150 to \$174 ☐ \$475 to \$499
☐ \$175 to \$199 ☐ \$500 to \$524
☐ \$200 to \$224 ☐ \$525 to \$549
☐ \$225 to \$249 ☐ \$550 to \$599
☐ \$250 to \$274 ☐ \$600 to \$649
☐ \$275 to \$299 ☐ \$650 to \$699
☐ \$300 to \$324 ☐ \$700 to \$749
☐ \$325 to \$349 ☐ \$750 to \$999
☐ \$350 to \$374 ☐ \$1,000 or more

b. Does the monthly rent include any meals?

☐ Yes ☐ No

FOR CENSUS USE									
A. Total persons	B. Type of unit	D. Months vacant	G. DO	ID	C1. Vacancy status	E. Complete after	F. Cov.	JC1	JC2
0 0 1 1 2 2 3 3 4 4 5 5 6 6 7 7 8 8 9 9	Occupied <input type="radio"/> First form <input type="radio"/> Conf'n Vacant <input type="radio"/> Regular <input type="radio"/> Usual home elsewhere <input type="radio"/> For rent <input type="radio"/> For sale only <input type="radio"/> Rented or sold, not occupied <input type="radio"/> For migrant workers <input type="radio"/> Other vacant	<input type="radio"/> Less than 1 <input type="radio"/> 1 up to 2 <input type="radio"/> 2 up to 6	<input type="radio"/> 6 up to 12 <input type="radio"/> 12 up to 24 <input type="radio"/> 24 or more	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 2 2 2 2 2 2 2 2 2 2 					

<p>H8. When did the person listed in column 1 on page 2 move into this house or apartment?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1959 or earlier </p>	<p>H14. Which FUEL is used MOST for heating this house or apartment?</p> <p> <input type="radio"/> Gas: from underground pipes serving the neighborhood <input type="radio"/> Gas: bottled, tank, or LP <input type="radio"/> Electricity <input type="radio"/> Fuel oil, kerosene, etc. <input type="radio"/> Coal or coke <input type="radio"/> Wood <input type="radio"/> Solar energy <input type="radio"/> Other fuel <input type="radio"/> No fuel used </p>	<p>H20. What are the yearly costs of utilities and fuels for this house or apartment? If you have lived here less than 1 year, estimate the yearly cost.</p> <p>a. Electricity</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or electricity not used </p>
<p>H9. How many bedrooms do you have; that is, how many bedrooms would you list if this house or apartment were on the market for sale or rent?</p> <p> <input type="radio"/> No bedroom <input type="radio"/> 1 bedroom <input type="radio"/> 2 bedrooms <input type="radio"/> 3 bedrooms <input type="radio"/> 4 bedrooms <input type="radio"/> 5 or more bedrooms </p>	<p>H15. Do you get water from —</p> <p> <input type="radio"/> A public system such as a city water department, or private company? <input type="radio"/> An individual drilled well? <input type="radio"/> An individual dug well? <input type="radio"/> Some other source such as a spring, creek, river, cistern, etc.? </p>	<p>b. Gas</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or gas not used </p>
<p>H10. Do you have COMPLETE plumbing facilities in this house or apartment; that is, 1) hot and cold piped water, 2) a flush toilet, and 3) a bathtub or shower?</p> <p> <input type="radio"/> Yes, have all three facilities <input type="radio"/> No </p>	<p>H16. Is this building connected to a public sewer?</p> <p> <input type="radio"/> Yes, connected to public sewer <input type="radio"/> No, connected to septic tank or cesspool <input type="radio"/> No, use other means </p>	<p>c. Water</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge </p>
<p>H11. Do you have COMPLETE kitchen facilities; that is, 1) a sink with piped water, 2) a range or cookstove, and 3) a refrigerator?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H17. About when was this building first built?</p> <p> <input type="radio"/> 1989 or 1990 <input type="radio"/> 1985 to 1988 <input type="radio"/> 1980 to 1984 <input type="radio"/> 1970 to 1979 <input type="radio"/> 1960 to 1969 <input type="radio"/> 1950 to 1959 <input type="radio"/> 1940 to 1949 <input type="radio"/> 1939 or earlier <input type="radio"/> Don't know </p>	<p>d. Oil, coal, kerosene, wood, etc.</p> <p> <input type="text"/> \$ <input type="text"/> .00 Yearly cost — Dollars </p> <p>OR</p> <p> <input type="radio"/> Included in rent or in condominium fee <input type="radio"/> No charge or these fuels not used </p>
<p>H12. Do you have a telephone in this house or apartment?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	<p>H18. Is this house or apartment part of a condominium?</p> <p> <input type="radio"/> Yes <input type="radio"/> No </p>	
<p>H13. How many automobiles, vans, and trucks of one-ton capacity or less are kept at home for use by members of your household?</p> <p> <input type="radio"/> None <input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4 <input type="radio"/> 5 <input type="radio"/> 6 <input type="radio"/> 7 or more </p>	<p><i>If you live in an apartment building, skip to H20.</i></p> <p>H19a. Is this house on less than 1 acre?</p> <p> <input type="radio"/> Yes — Skip to H20 <input type="radio"/> No </p> <p>b. In 1989, what were the actual sales of all agricultural products from this property?</p> <p> <input type="radio"/> None <input type="radio"/> \$1 to \$999 <input type="radio"/> \$1,000 to \$2,499 <input type="radio"/> \$2,500 to \$4,999 <input type="radio"/> \$5,000 to \$9,999 <input type="radio"/> \$10,000 or more </p>	

INSTRUCTION:

Answer questions H21 TO H26, if this is a one-family house, a condominium, or a mobile home that someone in this household OWNS OR IS BUYING; otherwise, go to page 6.

H21. What were the real estate taxes on THIS property last year?

\$.00
Yearly amount — Dollars

OR

☐ None

H22. What was the annual payment for fire, hazard, and flood insurance on THIS property?

\$.00
Yearly amount — Dollars

OR

☐ None

H23a. Do you have a mortgage, deed of trust, contract to purchase, or similar debt on THIS property?

- ☐ Yes, mortgage, deed of trust, or similar debt
 - ☐ Yes, contract to purchase
 - ☐ No — Skip to H24a
- } Go to H23b

b. How much is your regular monthly mortgage payment on THIS property? Include payment only on first mortgage or contract to purchase.

\$.00
Monthly amount — Dollars

OR

☐ No regular payment required — Skip to H24a

c. Does your regular monthly mortgage payment include payments for real estate taxes on THIS property?

- ☐ Yes, taxes included in payment
- ☐ No, taxes paid separately or taxes not required

d. Does your regular monthly mortgage payment include payments for fire, hazard, or flood insurance on THIS property?

- ☐ Yes, insurance included in payment
- ☐ No, insurance paid separately or no insurance

H24a. Do you have a second or junior mortgage or a home equity loan on THIS property?

- ☐ Yes
- ☐ No — Skip to H25

b. How much is your regular monthly payment on all second or junior mortgages and all home equity loans?

\$.00
Monthly amount — Dollars

OR

☐ No regular payment required

Answer ONLY if this is a CONDOMINIUM —

H25. What is the monthly condominium fee?

\$.00
Monthly amount — Dollars

Answer ONLY if this is a MOBILE HOME —

H26. What was the total cost for personal property taxes, site rent, registration fees, and license fees on this mobile home and its site last year? Exclude real estate taxes.

\$.00
Yearly amount — Dollars

Please turn to page 6. ➔

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23a. How did this person usually get to work LAST WEEK? If this person usually used more than one method of transportation during the trip, fill the circle of the one used for most of the distance.

- ☐ Car, truck, or van ☐ Motorcycle
☐ Bus or trolley bus ☐ Bicycle
☐ Streetcar or trolley car ☐ Walked
☐ Subway or elevated ☐ Worked at home
☐ Railroad ☐ Skip to 28
☐ Ferryboat ☐ Other method
☐ Taxicab

If "car, truck, or van" is marked in 23a, go to 23b. Otherwise, skip to 24a.

b. How many people, including this person, usually rode to work in the car, truck, or van LAST WEEK?

- ☐ Drove alone ☐ 5 people
☐ 2 people ☐ 6 people
☐ 3 people ☐ 7 to 9 people
☐ 4 people ☐ 10 or more people

24a. What time did this person usually leave home to go to work LAST WEEK?

- ☐ a.m.
☐ p.m.

b. How many minutes did it usually take this person to get from home to work LAST WEEK?

- ☐ Minutes — Skip to 28

25. Was this person TEMPORARILY absent or on layoff from a job or business LAST WEEK?

- ☐ Yes, on layoff
☐ Yes, on vacation, temporary illness, labor dispute, etc.
☐ No

26a. Has this person been looking for work during the last 4 weeks?

- ☐ Yes
☐ No — Skip to 27

b. Could this person have taken a job LAST WEEK if one had been offered?

- ☐ No, already has a job
☐ No, temporarily ill
☐ No, other reasons (in school, etc.)
☐ Yes, could have taken a job

27. When did this person last work, even for a few days?

- ☐ 1990 ☐ 1980 to 1984
☐ 1989 ☐ 1979 or earlier
☐ 1988 ☐ Never worked
☐ 1985 to 1987

28-30. CURRENT OR MOST RECENT JOB ACTIVITY.

Describe clearly this person's chief job activity or business last week. If this person had more than one job, describe the one at which this person worked the most hours. If this person had no job or business last week, give information for his/her last job or business since 1985.

28. Industry or Employer

a. For whom did this person work?

If now on active duty in the Armed Forces, fill this circle — ☐ and print the branch of the Armed Forces.

(Name of company, business, or other employer)

b. What kind of business or industry was this?

Describe the activity at location where employed.

(For example: hospital, newspaper publishing, mail order house, auto engine manufacturing, retail bakery)

c. Is this mainly — Fill ONE circle

- ☐ Manufacturing ☐ Other (agriculture, construction, service, government, etc.)
☐ Wholesale trade
☐ Retail trade

29. Occupation

a. What kind of work was this person doing?

(For example: registered nurse, personnel manager, supervisor of order department, gasoline engine assembler, cake icer)

b. What were this person's most important activities or duties?

(For example: patient care, directing hiring policies, supervising order clerks, assembling engines, icing cakes)

30. Was this person — Fill ONE circle

- ☐ Employee of a PRIVATE FOR PROFIT company or business or of an individual, for wages, salary, or commissions
☐ Employee of a PRIVATE NOT-FOR-PROFIT, tax-exempt, or charitable organization
☐ Local GOVERNMENT employee (city, county, etc.)
☐ State GOVERNMENT employee
☐ Federal GOVERNMENT employee
☐ SELF-EMPLOYED in own NOT INCORPORATED business, professional practice, or farm
☐ SELF-EMPLOYED in own INCORPORATED business, professional practice, or farm
☐ Working WITHOUT PAY in family business or farm

31a. Last year (1989), did this person work, even for a few days, at a paid job or in a business or farm?

- ☐ Yes
☐ No — Skip to 32

b. How many weeks did this person work in 1989?

Count paid vacation, paid sick leave, and military service.

Weeks

c. During the weeks WORKED in 1989, how many hours did this person usually work each week?

Hours

32. INCOME IN 1989 —

Fill the "Yes" circle below for each income source received during 1989. Otherwise, fill the "No" circle. If "Yes," enter the total amount received during 1989.

For income received jointly, see instruction guide. If exact amount is not known, please give best estimate. If net income was a loss, write "Loss" above the dollar amount.

a. Wages, salary, commissions, bonuses, or tips from all jobs — Report amount before deductions for taxes, bonds, dues, or other items.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

b. Self-employment income from own nonfarm business, including proprietorship and partnership — Report NET income after business expenses.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

c. Farm self-employment income — Report NET income after operating expenses. Include earnings as a tenant farmer or sharecropper.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

d. Interest, dividends, net rental income or royalty income, or income from estates and trusts — Report even small amounts credited to an account.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

e. Social Security or Railroad Retirement

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

f. Supplemental Security Income (SSI), Aid to Families with Dependent Children (AFDC), or other public assistance or public welfare payments.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

g. Retirement, survivor, or disability pensions — Do NOT include Social Security.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

h. Any other sources of income received regularly such as Veterans' (VA) payments, unemployment compensation, child support, or alimony — Do NOT include lump-sum payments such as money from an inheritance or the sale of a home.

- ☐ Yes — \$.00
☐ No — Annual amount — Dollars

33. What was this person's total income in 1989?

Add entries in questions 32a through 32h; subtract any losses. If total amount was a loss, write "Loss" above amount.

- ☐ None OR \$.00
 Annual amount — Dollars

Please turn the page and answer questions for Person 2 listed on page 1. If this is the last person listed in question 1a on page 1, go to the back of the form.

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APPENDIX F.

Data Products and User Assistance

CONTENTS

Data Products	F-1
Geographic Products	F-3
Other Census Bureau Resources	F-5
Reference Materials	F-4
Sources of Assistance	F-4

The 1990 census data products, being released during 1991-93, are available in a variety of new and traditional media. The Census Bureau has increased the product options available to data users in an effort to meet a variety of requirements and maximize the usefulness of the data. For example, laser discs, called CD-ROM (compact disc—read-only memory), are a new data delivery medium.

The Census Bureau also has expanded services and sources of assistance available to data users. For example, the State Data Center Program has been expanded to include over 1,400 organizations to provide data and services to the public.

This appendix provides a detailed introduction to the 1990 census data products and related materials, such as maps and reference publications. It concludes by describing sources of assistance and other Census Bureau data available to the public.

DATA PRODUCTS

Printed reports and computer tape files traditionally are the most widely used products. The Census Bureau also offers data on microfiche, on CD-ROM laser discs, and through its online service, CENDATA™. These various products are described below. For information about prices and how to order, write or call Customer Services. (See the "Sources of Assistance" section for the address and phone number.)

The data products present statistics about the subjects covered in the 1990 census questionnaires. These subjects are listed in figure 1, page F-7. As the figure shows, there are 100-percent subjects (those covered in questions asked of everyone or about every housing unit) and sample subjects (those covered in questions asked at about one out of every six housing units). Generally, a data product presents either 100-percent data prepared by tabulating the responses to the 100-percent questions from all questionnaires, or sample data prepared by tabulating only the responses to the 100-percent and sample questions from the "long-form" questionnaires. Two report series, 1990 CPH-3 and 1990 CPH-4 (see figure 2, page F-8), present both 100-percent and sample data.

Printed Reports

Printed reports are the most convenient and readily available source of data for most census users. The Census Bureau releases the reports in several series (see figure 2) that are grouped under three broad titles: *1990 Census of Population and Housing* (1990 CPH), *1990 Census of Population* (1990 CP), and *1990 Census of Housing* (1990 CH). There also are reports, not reflected in figure 2, for the outlying areas of the Pacific. The reports are sold by the Superintendent of Documents, U.S. Government Printing Office. (See the "Sources of Assistance" section for the address and phone number.)

In several series, there are separate reports for each State. The geographic coverage of the State reports is listed in figure 2. The United States summaries for these report series contain, for the most part, data for the United States, regions, divisions, States, metropolitan areas (MA's), urbanized areas (UA's), counties, American Indian and Alaska Native areas, places with 10,000 or more persons, and other large substate areas (for example, county subdivisions, such as towns and townships, with 10,000 or more persons in selected States).

Report series that present data for small areas, such as census tracts, contain limited subject-matter detail (for example, counts of people by age ranges—under 5 years, 5 to 9 years, etc.—rather than by single years). Report series that include greater amounts of subject-matter detail include less geographic detail.

Computer Tape Files

The Census Bureau provides more data on tape and other machine-readable products than in printed reports. These products are sold by the Census Bureau's Customer Services. There are several general types of data files released on computer tape (available on both reels and cartridges). They are introduced below, and more information is presented in figures 3 and 4, pages F-11 through F-13.

Public Law 94-171 Data—This data file presents the counts designed and formatted for use in legislative redistricting. These counts also are available on CD-ROM and paper listings. Excerpts are available on CENDATA™. The counts, for areas as small as blocks, census tracts, and voting districts, include totals for population, race groups, persons of Hispanic origin, population 18 years and over, and housing units. (See figure 4.)

Summary Tape Files (STF's)— These computer tape files provide statistics with greater subject-matter detail than printed reports. They also present statistics for some types of areas, such as block groups and blocks, that are not included in the reports. (See figure 3.)

Here are some important features of STF's:

- Each STF presents a particular set of data tables for specific types of geographic areas.
- Each STF has three or more file types (indicated by a letter suffix attached to the STF number) that differ in the geographic levels reported, but contain the same data detail.
- STF's 1 and 2 contain 100-percent data, and STF's 3 and 4 offer sample data.
- STF's 1 and 3 report on smaller areas and offer less data detail than STF's 2 and 4.
- STF's 1 through 4 offer greater data detail than the 1980 STF's 1 through 4.

Subject Summary Tape Files (SSTF's)—These files are the source of the subject reports and provide greater subject-matter detail than the STF's. They present data for the United States, regions, and divisions, and, in some cases, also for States, counties, and large cities. (See figure 4.)

Public Use Microdata Sample (PUMS) Files—These computer tape files (see figure 4) contain data from samples of long-form housing-unit records ("microdata") for large geographic areas. Each sample housing-unit record includes essentially all the 1990 census data collected about each person in a sample household and the characteristics of the housing unit. Information that could be used to identify an individual or a housing unit is not included in the file.

Microdata files enable users to prepare customized tabulations and cross-tabulations of most items on the census questionnaire. There are two PUMS files:

- A file presenting a 5-percent sample of housing units in which each household record includes codes to let the user know in what area, such as a group of counties, a single county, or a place, the household is located. Each area identified must have a population of at least 100,000 and boundaries that do not cross State lines.
- A file presenting a 1-percent sample of housing units. Its household records include codes associating them with MA's and other large areas, the boundaries of which may cross State lines. (For the 1980 census, there were two files with 1-percent samples. The 1-percent sample showing data for selected urbanized areas and other large areas will not be produced for the 1990 census.)

Other Special Computer Tape Files—Other files include the Census/Equal Employment Opportunity (EEO) Special File and the County-to-County Migration File. (See figure 4.) The Census Bureau may prepare additional special files.

Microfiche

Block statistics are available on microfiche as they were for the 1980 census. The microfiche present, in table format, a subset of the tabulations for census blocks found in STF 1B (see figure 3). In the 1990 census, for the first time, the entire land area of the Nation and its possessions was block-numbered. This increased the number of blocks for which the Census Bureau provides data from 2.5 million in 1980 to 7 million for 1990. The cost and storage of block data of this magnitude would be prohibitive if the data were published in printed reports.

STF's 1A and 3A are available on microfiche, as well. As noted in figure 3, they provide data for a variety of geographic areas. Also, all printed reports are offered on microfiche from Customer Services soon after they are published.

Compact Disc—Read-Only Memory (CD-ROM)

For the 1990 census, the Public Law (P.L.) 94-171 file; an extract of STF 1B that presents selected statistics for blocks; and STF's 1A, 1C, 3A, 3B, and 3C are also available on CD-ROM. (One 4 3/4-inch CD-ROM, a type of optical or laser disc, can hold the contents of approximately 1,600 flexible diskettes, or three or four high-density computer tapes.)

Online Information Systems

The Census Bureau began CENDATA™, its online information service, in 1984. CENDATA™ is accessible through two information vendors, CompuServe and DIALOG. A number of Census Bureau reports, in whole or in part, are offered online. For the 1990 census, CENDATA™ provides up-to-date information about the availability of data products and carries selections of State, county, MA, and place data from the P.L. 94-171 tape file and STF's 1 and 3.

Custom Data Products

These products are for users who require unique tabulations that are not included in standard products; for example, information for locally defined geographic areas. Users also can order special microdata files.

The cost of preparing custom products must be paid by the users who request them. Any data that the Census Bureau provides in these products are subject to the same standards applied to other data to ensure that confidential individual information is not revealed.

User-Defined Areas Program (UDAP) Tabulations—

UDAP can provide a set of predefined data tables for locally defined areas that do not correspond to standard 1990 census geographic areas. Users identify the geographic areas of interest to them by delineating boundaries around groupings of census blocks on 1990 census County

Block Maps or by electronically submitting the geographic components of their area of interest. (A contact for more information is given in the "Sources of Assistance" section.)

Special Tabulations—The Census Bureau can prepare special data tabulations for any specific geographic or subject-matter area. Users should rely on standard reports, tapes, microfiche, or user-defined area tabulations whenever possible, since special tabulations tend to be substantially more expensive and take time to arrange and produce. (Contacts for more information are given in the "Sources of Assistance" section.)

GEOGRAPHIC PRODUCTS

Maps

Census Bureau maps are necessary for virtually all uses of small-area 1990 census data. They are needed to locate the specific geographic areas for which the census provides data and to study the spatial relationship of the data for analytic purposes. The Census Bureau prepares a variety of 1990 census maps. Among the most useful are these four series:

County Block Maps—These maps show census blocks and their numbers; boundaries for statistical and governmental entities, such as census tracts and places; and physical features. The P.L. 94-171 version of these maps also shows voting district boundaries in those States that furnished them. The maps are prepared on electrostatic plotters by county (or equivalent entity) with one or more map sheets each, depending on the size and shape of the area and the density of the block pattern. An average county requires 20 map sheets. The maps may be purchased from Customer Services.

County Subdivision Outline Maps—Maps in this State-based series present the boundaries of the counties, county subdivisions, places, American Indian and Alaska Native areas (including off-reservation trust lands), tribal designated statistical areas, and tribal jurisdiction statistical areas. Electrostatic-plotter copies are available for purchase from Customer Services. Also, they appear on multiple page-size sheets in the State reports of these series: 1990 CPH-1, 1990 CPH-2, 1990 CPH-5, 1990 CP-1, 1990 CP-2, 1990 CH-1, and 1990 CH-2.

Census Tract/Block Numbering Area (BNA) Outline Maps—Maps in this county-based series depict census tract or BNA boundaries and numbers, and the features underlying the boundaries. They also show governmental units in relation to the census tracts/BNA's. Customer Services sells electrostatic-plotter copies, and the Superintendent of Documents sells printed copies.

Voting District Outline Maps—Maps in this county-based series depict voting district boundaries (for those counties for which States furnished boundary information) and the features underlying the boundaries. They also show governmental unit boundaries in relation to the voting districts. They are prepared on electrostatic plotters and sold by Customer Services.

Geographic Publications

The *Geographic Identification Code Scheme* report in the 1990 CPH-R series shows the 1990 census geographic area codes and Federal information processing standards (FIPS) codes, as appropriate, for States, metropolitan areas, counties, county subdivisions, places, American Indian and Alaska Native areas, and other entities, along with some descriptive information about the codes. The code scheme also is offered on computer tape.

Machine-Readable Geographic Files

All 1990 census summary tape files include 1990 census geographic area codes, FIPS codes, certain area names, land and inland water area in square kilometers, geographic coordinates for an internal point for each entity, and other geographic information.

The Census Bureau developed an automated geographic data base, known as the TIGER (Topologically Integrated Geographic Encoding and Referencing) System, to produce the geographic products for the 1990 census. TIGER provides coordinate-based digital map information for the entire United States, Puerto Rico, the U.S. Virgin Islands, and the Pacific territories over which the United States has jurisdiction.

The TIGER System has significantly improved the utility of 1990 census maps and geographic reference products. Extract files generated from the TIGER System permit users, with appropriate software, to perform such tasks as linking the statistical data in the P.L. 94-171 file or the STF's and displaying selected characteristics on maps or a video display screen at different scales and with whatever boundaries they select for any geographic area of the country. For example, a map for a particular county could show the distribution of the voting age population by city block.

The first extract of selected geographic and cartographic information intended for computer applications, such as plotting maps and building geographic information systems, is called the TIGER/Line™ files. TIGER/Line™ files contain attributes for the segments of each boundary and feature (for example, roads, railroads, and rivers), including 1990 census geographic codes for adjacent areas, latitude/longitude coordinates of segment end points and the curvature of segments, the name and type of the feature, and the relevant census feature class code identifying the feature segment by category. TIGER/Line™ files also furnish address ranges and associated ZIP

Codes for each side of street segments in major urban areas; provide the names of landmarks, such as lakes and golf courses; and include other information.

TIGER/Line™ files and other TIGER System extracts, such as TIGER/Boundary™ and TIGER/DataBase™, are released on computer tape and, in some cases, CD-ROM. For information on TIGER extract files, contact Customer Services.

REFERENCE MATERIALS

The Census Bureau issues several reference publications for data users. Some are sold by the Superintendent of Documents; others are distributed free by Customer Services. Addresses and phone numbers for the Superintendent of Documents and Customer Services are given in the following section.

- *1990 Census of Population and Housing, Guide*. This guide, in the 1990 CPH-R report series, provides detailed information about all aspects of the census and a comprehensive glossary of census terms. Sold by the Superintendent of Documents, U.S. Government Printing Office.
- *1990 Census of Population and Housing Tabulation and Publication Program*. A free report describing 1990 census products, comparing 1990 products with those of 1980, and more. Request from Customer Services.
- *Census '90 Basics*. A free booklet covering how the 1990 census data were collected and processed, the full range of data products, the maps and geographic files, and more, but with less detail than the Guide (above). Request from Customer Services.
- *Census ABC's—Applications in Business and Community*. A free booklet that highlights key information about the 1990 census and illustrates a variety of ways the data can be used. Request from Customer Services.
- *Strength in Numbers*. A free, tabloid-size booklet designed to assist people in using 1990 census data in redistricting. Among other features, it includes illustrations of maps and Public Law 94-171 counts. Request from Customer Services.
- *TIGER: The Coast-to-Coast Digital Map Data Base*. A free booklet describing the structure and uses of the Census Bureau's TIGER System. Request from Customer Services.
- *Census and You*. The Census Bureau's monthly newsletter for data users. It reports on the latest 1990 census developments, selected new publications and computer tape files, other censuses and surveys, developments in services to users, and upcoming conferences and training courses. Subscriptions are sold by the Superintendent of Documents, U.S. Government Printing Office.

- *Monthly Product Announcement*. A free monthly listing of all new Census Bureau publications; microfiche; maps; data files on tape, diskettes, or CD-ROM; and technical documentation. To subscribe, contact Customer Services.
- *Census Catalog and Guide*. A comprehensive annual description of data products, statistical programs, and services of the Census Bureau. It provides abstracts of the publications, data files, microfiche, maps, and items online. In addition, the Catalog/Guide offers such features as information about censuses and surveys and telephone contact lists of data specialists at the Census Bureau, the State Data Centers, and other data processing service centers. It is sold by the Superintendent of Documents, U.S. Government Printing Office.

Users also can get listings of new Census Bureau products, updated daily, by subscribing to the *Daily List*. This information and selected statistics are available online through CENDATA™, the Census Bureau's online information service. For more information, contact Customer Services.

SOURCES OF ASSISTANCE

U.S. Bureau of the Census

The Census Bureau's Customer Services sells most of the machine-readable data products, microfiche, and maps described earlier. (The 1990 census printed reports are sold by the Superintendent of Documents, as noted below.) Also, users may consult with specialists at the Census Bureau's Washington headquarters and its 12 regional offices. From time to time, the specialists also conduct workshops, seminars, and training courses.

Washington, DC, Contacts—To order products, for a telephone contacts list of Census Bureau specialists, and for general information: Customer Services, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4100 (fax number, 301-763-4794).

For User-Defined Areas Program (UDAP) information: UDAP Staff, Decennial Planning Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-4282.

For special tabulation information: Population—Rosemarie Cowan, Population Division, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-5476; Housing—William Downs, Housing and Household Economic Statistics, U.S. Bureau of the Census, Washington, DC 20233, telephone 301-763-8553.

Regional Office Contacts—

Atlanta, GA	404-347-2274
Boston, MA	617-565-7078
Charlotte, NC	704-371-6144
Chicago, IL	312-353-0980
Dallas, TX	214-767-7105
Denver, CO	303-969-7750
Detroit, MI	313-354-4654
Kansas City, KS	913-236-3711
Los Angeles, CA	818-904-6339
New York, NY	212-264-4730
Philadelphia, PA	215-597-8313
Seattle, WA	206-728-5314

Superintendent of Documents, U.S. Government Printing Office

The Superintendent of Documents handles the sale of most of the Federal Government's publications, including 1990 census reports. To order reports and for information: Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, telephone 202-783-3238.

Other Sources of Products and Services

State Data Centers—The Census Bureau furnishes data products, training in data access and use, technical assistance, and consultation to all States, the District of Columbia, Guam, Puerto Rico, and the U.S. Virgin Islands. State Data Centers, in turn, offer publications for reference, printouts from computer tape, specially prepared reports, maps, and other products and assistance to data users. For a list of the State Data Centers, see the *Census Catalog and Guide* or contact Customer Services. The list also notes organizations in States participating in the Census Bureau's Business/Industry Data Center (BIDC) Program. The BIDC's help business people, economic development planners, and other data users obtain and use data.

National Services Program—The National Services Program (NSP) provides data-related services for nationally based nonprofit organizations that represent minorities or other segments of the population who have been historically undercounted in decennial censuses. The participants include social service, business, professional, civil rights, educational, and religious groups. Through a pilot project, the National Services Information Center (NSIC) Initiative, three of these nonprofit groups now offer their clientele reports, computer tape printouts, and other information from the Census Bureau. To learn more about the NSP and the NSIC, write to the National Services Program, Data User Services Division, Bureau of the Census, Washington, DC 20233, or call 301-763-1384.

National Clearinghouse—The National Clearinghouse for Census Data Services is a listing of private companies and other organizations that offer assistance in obtaining and

using data released by the Census Bureau. For a list of participants in the National Clearinghouse, see the *Census Catalog and Guide* or contact Customer Services.

Depository Libraries—There are 1,400 libraries that receive (from the Government Printing Office) Federal publications that they think their patrons will need. Often some of these publications are Census Bureau reports. The Census Bureau provides free reports to an additional 120 census depository libraries. Also, many libraries purchase census reports and maps for their areas. The *Census Catalog and Guide* includes a list of all depository libraries.

OTHER CENSUS BUREAU RESOURCES

The Census Bureau has more to offer than just the results of the census of population and housing. Through other censuses, surveys, and estimates programs, it compiles and issues (in reports, computer tape, and other media) data on subjects as diverse as appliance sales, neighborhood conditions, and exports to other countries. Here are examples of the information published about—

- *People:* Age, race, sex, income, poverty, child care, child support, fertility, noncash benefits, education, commuting habits, pension coverage, unemployment, ancestry.
- *Business and industry:* Number of employees, total payroll, sales and receipts, products manufactured or sold.
- *Housing and construction:* Value of new construction, numbers of owners and renters, property value or rent paid, housing starts, fuels used, mortgage costs.
- *Farms:* Number, acreage, livestock, crop sales.
- *Governments:* Revenues and expenditures, taxes, employment, pension funds.
- *Foreign trade:* Exports and imports, origin and destination, units shipped.
- *Other nations:* Population, birth rates, death rates, literacy, fertility.

The other censuses, such as agriculture, retail trade, manufactures, and governments, are collected for years ending in "2" and "7." Surveys and estimates programs generate results as often as every month.

Many of the monthly "economic indicators" that measure how the Nation is doing come directly or indirectly from the Census Bureau. Examples: employment and unemployment; housing starts; wholesale and retail trade; manufacturers' shipments, inventories, and orders; export and import trade; and sales of single-family homes.

The other statistical activities of the Census Bureau are described below. Data users will find more information about them and descriptions of their data products in the

annual *Census Catalog and Guide*. Also, special guides and brochures are prepared for most of them. Contact the Census Bureau's Customer Services for more information.

Current Demographic and Housing Programs

Two types of current programs complement the 10-year census: population estimates and surveys. The total population of the United States is estimated monthly; the population of States, counties, and metropolitan areas is estimated annually; and the population of places and other governmental units is estimated every 2 years. Projections of future population are made at the national and State levels.

The Census Bureau's many household surveys update population and housing characteristics at the national level and sometimes for States and metropolitan areas, as well. These surveys also obtain many characteristics not included in the 10-year census. The Current Population Survey is taken monthly; the American Housing Survey national sample is taken biennially; the American Housing Survey metropolitan sample is taken in 44 areas, 11 per year in a 4-year cycle; most other surveys are annual or less frequent.

Economic Censuses and Surveys

The economic censuses provide statistics about business establishments once every 5 years, covering years ending in "2" and "7." The 1987 Economic Censuses include the censuses of retail trade, wholesale trade, service industries, transportation, manufactures, mineral industries, and construction industries. Also included are related programs, such as statistics on minority- and women-owned businesses, enterprise statistics, and censuses of economic activity in Puerto Rico and some of the outlying areas under U.S. jurisdiction.

Several key statistics are tabulated for all industries covered in the censuses. They are number of establishments, number of employees, payroll, and measure of output (sales or receipts, and value of shipments or of work done). Other items vary from sector to sector.

The Census Bureau also has programs that provide current statistics on such measures as total sales of particular kinds of businesses or production of particular products. These programs include monthly, quarterly, and annual surveys, the results of which appear in publication series such as *Current Business Reports* and *Current Industrial Reports*. The County Business Patterns program offers annual statistics based on data compiled primarily from administrative records.

Agriculture Census and Surveys

The agriculture census is conducted concurrently with the economic censuses. It is the only source of uniform agriculture data at the county level. It provides data on such subjects as the number and size of farms; land use and ownership; livestock, poultry, and crops; and value of products sold.

Results of three surveys—the 1988 Farm and Ranch Irrigation Survey, 1988 Census of Horticulture Specialties, and 1988 Agricultural Economics and Land Ownership Survey—are published in conjunction with the 1987 Census of Agriculture. Also, the Census Bureau regularly issues reports from a survey on cotton ginnings.

Governments Census and Surveys

The census of governments, also for years ending in "2" and "7," covers all types of governments: Federal, State, county, municipal (place), township (county subdivision), school district, and special district. It provides data on such subjects as number of public employees, payrolls, revenue, and expenditures.

Annual and quarterly surveys cover the same principal subjects but generate data only for States and the largest local governments.

Foreign Trade Statistics

Monthly U.S. merchandise trade data compiled by the Census Bureau summarize export and import transactions and are based on the official documents filed by shippers and receivers. These figures reflect the flow of merchandise but not intangibles like services and financial commitments. The trade figures trace commodity movements out of and into the U.S. Customs jurisdiction, which includes Puerto Rico and the U.S. Virgin Islands as well as the 50 States and the District of Columbia. Data are published separately on trade between the United States and Puerto Rico, the U.S. Virgin Islands, and other U.S. possessions.

Other Statistical Activities

The Census Bureau also offers international data. It maintains an international data base which is available to the public on computer tape and is used to produce the biennial *World Population Profile* report. It prepares studies dealing with the demographic and economic characteristics of other countries and world regions.

Statistical compendia are another important data product. These publications (sometimes also offered in machine-readable form) draw data from many sources and reorganize them for convenient use. The most widely used compendia are the annual *Statistical Abstract of the United States*, the *County and City Data Book* (published every 5 years), and the *State and Metropolitan Area Data Book* (published approximately every 4 years).

Figure 1. 1990 Census Content

100-PERCENT COMPONENT

Population

Household relationship
Sex
Race
Age
Marital status
Hispanic origin

Housing

Number of units in structure
Number of rooms in unit
Tenure—owned or rented
Value of home or monthly rent
Congregate housing (meals included in rent)
Vacancy characteristics

SAMPLE COMPONENT

Population

Social characteristics:

Education—enrollment and attainment
Place of birth, citizenship, and year of entry into U.S.
Ancestry
Language spoken at home
Migration (residence in 1985)
Disability
Fertility
Veteran status

Economic characteristics:

Labor force
Occupation, industry, and class of worker
Place of work and journey to work
Work experience in 1989
Income in 1989
Year last worked

Housing

Year moved into residence
Number of bedrooms
Plumbing and kitchen facilities
Telephone in unit
Vehicles available
Heating fuel
Source of water and method of sewage disposal
Year structure built
Condominium status
Farm residence
Shelter costs, including utilities

NOTE: Questions dealing with the subjects covered in the 100-percent component were asked of all persons and housing units. Those covered by the sample component were asked of a sample of the population and housing units.

Figure 2. 1990 Census Printed Reports

Series	Title	Report(s) Issued for	Description	Geographic areas
1990 CENSUS OF POPULATION AND HOUSING (1990 CPH)				
100-Percent Data				
1990 CPH-1	Summary Population and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Population and housing unit counts, and summary statistics on age, sex, race, Hispanic origin, household relationship, units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CPH-2	Population and Housing Unit Counts	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Total population and housing unit counts for 1990 and previous censuses	States, counties, county subdivisions, places, State component parts of metropolitan areas (MA's) and urbanized areas (UA's), and summary geographic areas (for example, urban and rural)
100-Percent and Sample Data				
1990 CPH-3	Population and Housing Characteristics for Census Tracts and Block Numbering Areas	MA's, and the nonmetropolitan balance of each State, Puerto Rico, and U.S. Virgin Islands	Statistics on 100-percent and sample population and housing subjects	In MA's: census tracts/block numbering areas (BNA's), places of 10,000 or more inhabitants, and counties. In the remainder of each State: census tracts/BNA's, places of 10,000 or more, and counties
1990 CPH-4	Population and Housing Characteristics for Congressional Districts of the 103rd Congress	States and DC	Statistics on 100-percent and sample population and housing subjects	Congressional districts (CD's) and, within CD's, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, and American Indian and Alaska Native areas
Sample Data				
1990 CPH-5	Summary Social, Economic, and Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population and housing subjects	Local governmental units (i.e., counties, places, and towns and townships), other county subdivisions, and American Indian and Alaska Native areas
1990 CENSUS OF POPULATION (1990 CP)				
100-Percent Data				
1990 CP-1	General Population Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) Issued for	Description	Geographic areas
1990 CENSUS OF POPULATION (1990 CP)—Con.				
100-Percent Data—Con.				
1990 CP-1-1A	General Population Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, off-reservation trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CP-1-1B	General Population Characteristics for Metropolitan Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CP-1-1C	General Population Characteristics for Urbanized Areas	U.S.	Detailed statistics on age, sex, race, Hispanic origin, marital status, and household relationship characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
Sample Data				
1990 CP-2	Social and Economic Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample population subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and the State portion of American Indian areas
1990 CP-2-1A	Social and Economic Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample population subjects	American Indian and Alaska Native areas, as for CP-1-1A
1990 CP-2-1B	Social and Economic Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample population subjects	Individual MA's, as for CP-1-1B
1990 CP-2-1C	Social and Economic Characteristics for Urbanized Areas	U.S.	Statistics generally on sample population subjects	Individual UA's, as for CP-1-1C
1990 CP-3	Population Subject Reports	Selected subjects	Approximately 30 reports on population census subjects such as migration, education, income, the older population, and racial and ethnic groups	Generally limited to the U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 2. 1990 Census Printed Reports—Con.

Series	Title	Report(s) issued for	Description	Geographic areas
1990 CENSUS OF HOUSING (1990 CH)				
100-Percent Data				
1990 CH-1	General Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	States, counties, places of 1,000 or more inhabitants, county subdivisions of 1,000 or more inhabitants in selected States, State parts of American Indian areas, Alaska Native areas, and summary geographic areas such as urban and rural
1990 CH-1-1A	General Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	American Indian and Alaska Native areas; i.e., American Indian reservations, trust lands, tribal jurisdiction statistical areas (Oklahoma), tribal designated statistical areas, Alaska Native village statistical areas, and Alaska Native Regional Corporations
1990 CH-1-1B	General Housing Characteristics for Metropolitan Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual MA's. For MA's split by State boundaries, summaries are provided both for the parts and for the whole MA
1990 CH-1-1C	General Housing Characteristics for Urbanized Areas	U.S.	Detailed statistics on units in structure, value and rent, number of rooms, tenure, and vacancy characteristics	Individual UA's. For UA's split by State boundaries, summaries are provided both for the parts and for the whole UA
Sample Data				
1990 CH-2	Detailed Housing Characteristics	U.S., States, DC, Puerto Rico, and U.S. Virgin Islands	Statistics generally on sample housing subjects	States (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, Alaska Native areas, and State parts of American Indian areas
1990 CH-2-1A	Detailed Housing Characteristics for American Indian and Alaska Native Areas	U.S.	Statistics generally on sample housing subjects	American Indian and Alaska Native areas, as in 1990 CH-1-1A
1990 CH-2-1B	Detailed Housing Characteristics for Metropolitan Areas	U.S.	Statistics generally on sample housing subjects	Individual MA's, as in 1990 CH-1-1B
1990 CH-2-1C	Detailed Housing Characteristics for Urbanized Areas	U.S.	Statistics generally on sample housing subjects	Individual UA's, as in 1990 CH-1-1C
1990 CH-3	Housing Subject Reports	Selected subjects	Approximately 10 reports on housing census subjects such as structural characteristics and space utilization	Generally limited to U.S., regions, and divisions; for some reports, other highly populated areas such as States, MA's, counties, and large places

Figure 3. 1990 Census Summary Tape Files

Summary Tape File
(STF 1A, 1B, etc.)
and data type
(100 percent or
sample)¹

Geographic areas

Description

STF 1 (100 percent)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's). Also Alaska Native areas and State parts of American Indian areas	Over 900 cells/items of 100-percent population and housing counts and characteristics for each geographic area
	B ^{2 3}	States, counties, county subdivisions, places, census tracts/BNA's, BG's, blocks. Also Alaska Native areas and State parts of American Indian areas	
	C ³	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, metropolitan areas (MA's), urbanized areas (UA's), American Indian and Alaska Native areas	
	D	Congressional districts (CD's) of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, Alaska Native areas, and American Indian areas	
STF 2 (100 percent)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	Over 2,100 cells/items of 100-percent population and housing counts and characteristics for each geographic area. Each of the STF 2 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin
	B	States (including summaries such as urban and rural), counties, places of 1,000 or more inhabitants, county subdivisions, State parts of American Indian areas, and Alaska Native areas	
	C	U.S., regions, divisions, States (including summaries such as urban and rural), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	
STF 3 (Sample)	A ^{2 3}	States, counties, county subdivisions, places, census tracts/BNA's, BG's. Also Alaska Native areas and State parts of American Indian areas	Over 3,300 cells/items of sample population and housing characteristics for each geographic area
	B ³	Five-digit ZIP Codes within each State	
	C ³	U.S., regions, divisions, States, counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, American Indian and Alaska Native areas, MA's, UA's	
	D	CD's of the 103rd Congress by State; and within each CD: counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States	

Figure 3. 1990 Census Summary Tape Files—Con.

Summary Tape File
(STF 1A, 1B, etc.)
and data type
(100 percent or
sample)¹

		Geographic areas	Description
STF 4 (Sample)	A	In MA's: counties, places of 10,000 or more inhabitants, and census tracts/BNA's. In the remainder of each State: counties, places of 10,000 or more inhabitants, and census tracts/BNA's	
	B	State (including summaries such as urban and rural), counties, places of 2,500 or more inhabitants, county subdivisions of 2,500 or more inhabitants in selected States, all county subdivisions in New England MA's, State parts of American Indian areas, and Alaska Native areas	Over 8,500 cells/items of sample population and housing characteristics for each geographic area. Each of the STF 4 files will include a set of tabulations for the total population and separate presentations of tabulations by race and Hispanic origin.
	C	U.S., regions, divisions, States (including urban and rural and metropolitan and nonmetropolitan components), counties, places of 10,000 or more inhabitants, county subdivisions of 10,000 or more inhabitants in selected States, all county subdivisions in New England MA's, American Indian and Alaska Native areas, MA's, UA's	

¹Similar STF's will be prepared for Puerto Rico and the U.S. Virgin Islands.

²Also available on microfiche. STF 1B microfiche provides only part of the data for blocks and other areas in the tape file.

³Also available on laser disc (CD-ROM). STF 1B CD-ROM presents the same file extract as STF 1B microfiche.

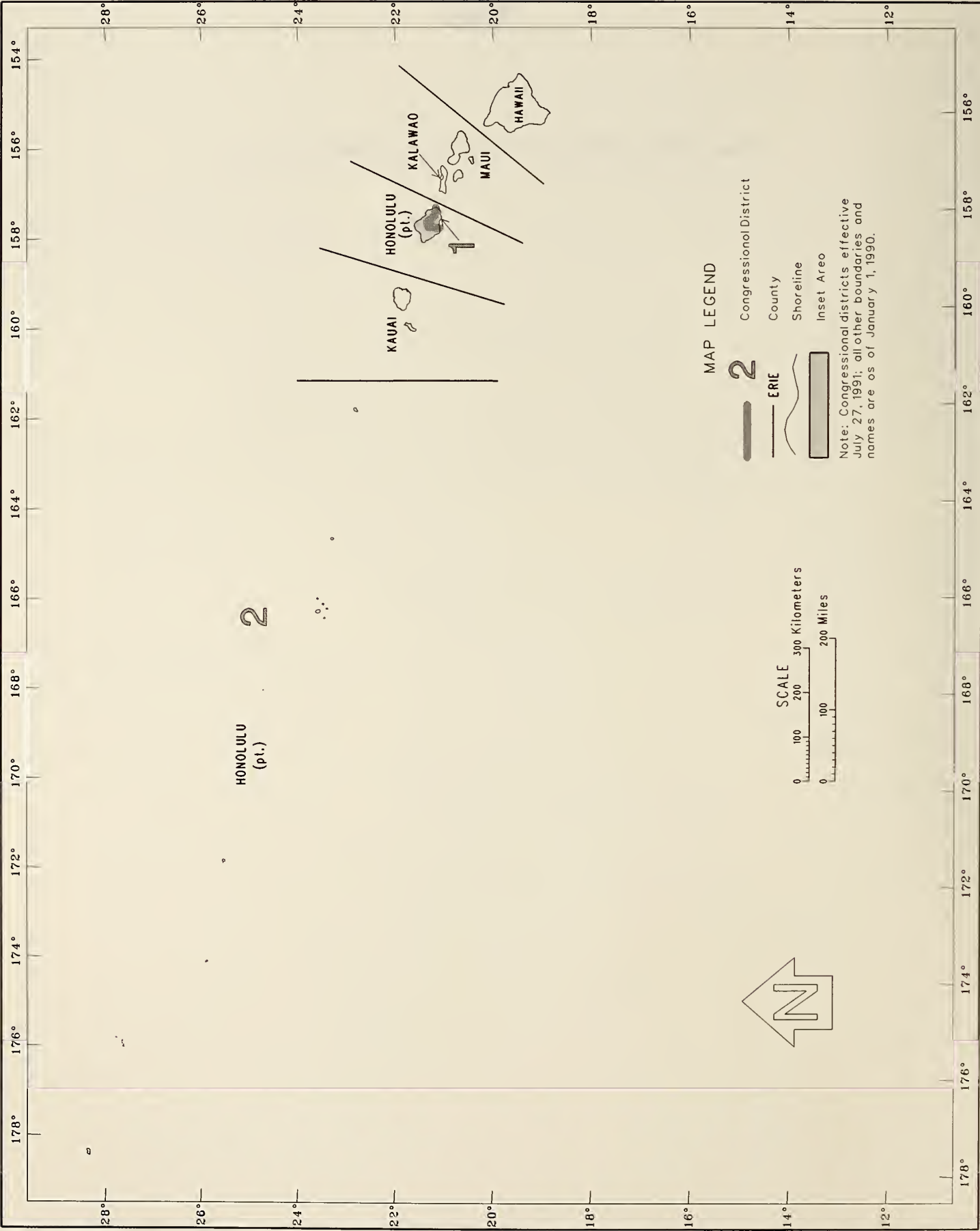
Figure 4. Other 1990 Census Data Products

Title	Description	Geographic areas
Subject Summary Tape Files	About 20 computer tape files used to produce the subject reports (1990 CP-3 and 1990 CH-3 series). On the average, a file is the source of two subject reports	U.S., regions, divisions, States, metropolitan areas (MA's), and large counties and places
Public Law 94-171 Data File (redistricting data)	Counts by total, race, and Hispanic origin for the total population and population 18 years old and over, and counts of housing units. Available on tape, CD-ROM, and paper listings	States, counties, county subdivisions, places, census tracts/block numbering areas (BNA's), block groups (BG's), and blocks; voting districts where States have identified them for the Census Bureau; and American Indian and Alaska Native areas
Census/Equal Employment Opportunity (EEO) Special File	Sample tabulations showing detailed occupations and educational attainment data by age; cross tabulated by sex, Hispanic origin, and race	Counties, MA's, places of 50,000 or more inhabitants
County-to-County Migration File	Summary statistics for all intra-state county-to-county migration streams and significant inter-state county-to-county migration streams. Each record will include codes for the geographic area of destination, and selected characteristics of the persons who made up the migration stream	States, counties
Public Use Microdata Sample (PUMS) Files	Machine-readable files containing a sample of individual long-form census records showing most population and housing characteristics but with identifying information removed	
5 Percent—PUMS Areas		County groups, counties, county subdivisions, and places with 100,000 or more inhabitants
1 Percent—Metropolitan Areas (1990)		MA's and other large areas with 100,000 or more inhabitants
User-Defined Areas Tabulations	A set of standard tabulations provided on printouts, tapes, or other products with maps and narrative (if requested)	User-defined areas created by aggregating census blocks
Special Tabulations	User-defined tabulations for specified geographic areas provided on printouts, tapes, or other products	User-defined areas or standard areas




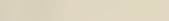
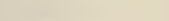
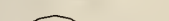
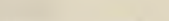

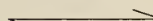
APPENDIX G.

Maps

Maps showing geographic areas for this report begin on page G-2.

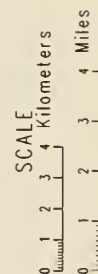
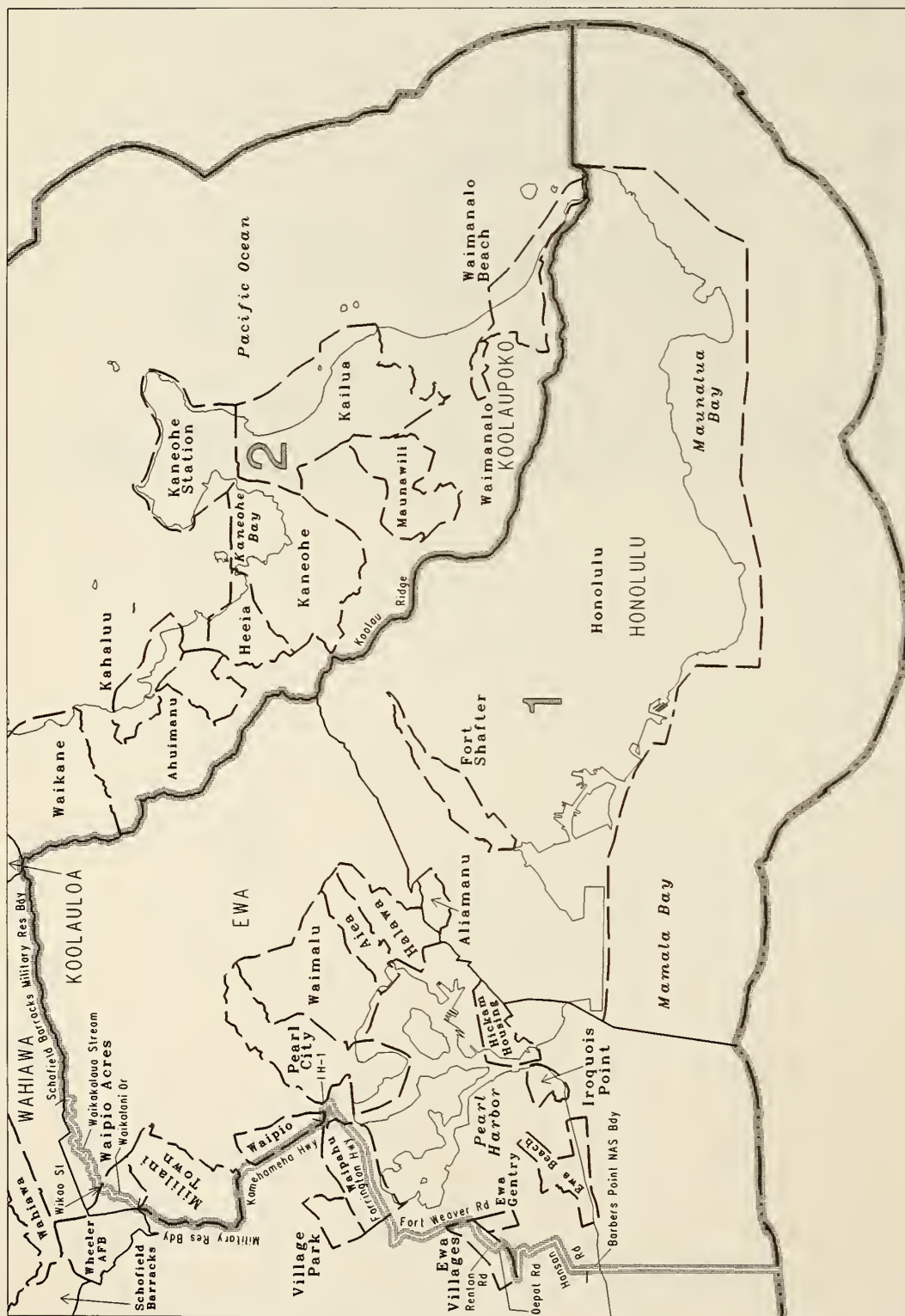


Congressional District Inset Map Legend

	2	Congressional District
		State
		County
	YORK	County Subdivision
	Zena	Census Designated Place
	Lake Erie	Large River, Lake, or Water Body
	Main St	Feature
		An asterisk following a place name indicates that the place is coextensive with a county subdivision. The county subdivision name is shown only when it differs from the place name.
		A fishhook joins contiguous and/or discontiguous parts of the same geographic entity.

Note: Congressional districts effective July 27, 1991; all other boundaries and names are as of January 1, 1990. Where State, county, and/or county subdivision boundaries coincide, the map shows the boundary symbol for only the highest-ranking of these geographic entities. Where a State, county, and/or county subdivision boundary coincides with a place boundary, the map does not show the place boundary symbol.

HONOLULU COUNTY (PART)



Note: The city of Honolulu is coextensive with Honolulu County. In agreement with Hawaiian law, the Census Bureau reports data for the separate communities in Honolulu County that have been identified by the State of Hawaii; it does not display the city in its products.

CB/Bureau of the Census Library



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